

# Corporate and Education solutions range guide

February 2019

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# SONY

## The Sony Solution

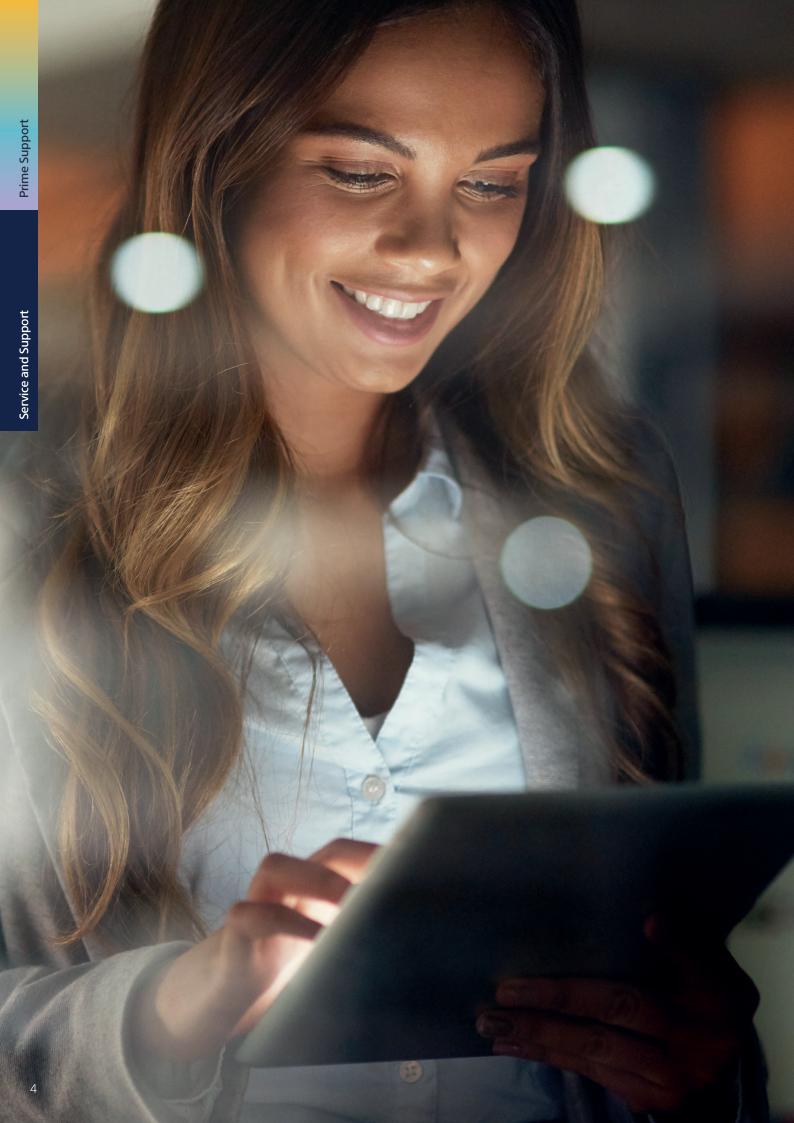
When it comes to professional AV technology, Sony provides much more than just great products. We create solutions that make visual communications and knowledge sharing even smarter and more efficient.

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** 



#### For more on PrimeSupport visit pro.sony/EU-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 fasttrack repair service that includes all shipping costs. And – depending on your product – we may offer to loan a replacement unit<sup>†</sup> 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**, an**d 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.

† Specific product cover may vary. Please visit pro.sony/EU-PrimeSupport for full details.



Find your local telephone number to contact our technical support team on our website **pro.sony/EU-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.

# Workplace solutions for a changing world

Transformation. It's the buzzword that's reshaping the very idea of what a workplace should be.

### No longer is an office simply a place of work. It's a space that facilitates collaboration, unlocks creativity and increases productivity.

As a result, the expectations and pressures on workplace managers have grown considerably. Employees want intuitive ways to share and present work. IT managers demand total security and connectivity. Senior management want to promote consistent and high-quality branding throughout the premises.

And facilities managers have a vested interest in workplace design and data analysis to help boost efficiency.

Our goal is to help you not only meet these expectations, but to surpass them. We've designed our corporate solutions to cover every aspect of workplace management, from room booking to data analysis, virtual receptions to digital signage – all displayed on stunning 4K professional displays.

#### 1 Reception

Enable guests to check themselves in, sign terms and conditions forms and report their arrival

Entertain and inform with news or brand messaging on our stunning BRAVIA 4K Professional Displays

#### 2 Common areas

Inform and ensure branding consistency with digital signage and floorplans displayed on BRAVIA screens Analyse booking and occupancy rates with workspace analytics

#### 3 Large meeting room

Control lights, projectors and any other AV equipment straight from your device

Collaborate with remote participants via Vision Exchange and communicate with Skype for Business

Check room availability and book it with a tap of a button Put an end to ghost rooms and unused spaces

#### 4 Small meeting room

Check room availability and book it with a tap of a button

Mirror content wirelessly onto BRAVIA screens Put an end to ghost rooms and unused spaces Monitor the operating status of devices to catch issues before meetings are disrupted

#### 5 Operations room

Use a single and comprehensive solution to manage all your AV devices and signage content

Lower energy costs and improve environmental impact by scheduling device activation

Analyse data to get a better understanding of your workplace Set custom alerts in the case of emergencies

Create engaging signage and display instantly around the office

#### 6 Auditorium

Wow your audience with brilliant visuals from 3LCD laser projectors, and benefit from a far lower cost of ownership (no bulbs to be replaced)

Manage projectors from a single dashboard

Record presentations at broadcast quality

Stream live and share presentations

### TEOS Solutions Overview

#### **TEOS Manage**

Manage your workplace from a single, intuitive dashboard

#### **TEOS Book**

Check meeting room availability, book rooms and review activity from a stylish room booking tablet

#### **TEOS Reception**

Enable guests to check in with our virtual receptionist on a range of tablets

#### **TEOS Connect**

Mirror content wirelessly from your device to large displays

### **TEOS Employee App**

Take control of all the connected devices in a meeting room from your phone

#### **TEOS Signage**

Easily create impressive signage and schedule across a wide range of displays













### TEOS Manage Streamline your workday, from start to finish

Make your working environment smarter and more productive with TEOS Manage – the workplace management platform from Sony. The systems give 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 Remote.

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

## Integrated management solutions

#### Manage all your networked devices

Enjoy a dashboard-style overview of devices; locations, activity status, green management settings and device issues.

#### Scheduled playout

Push content such as images, signage and videos to individual devices, zones or across the whole network. It's easy to manage and review playout schedules to ensure that the right content is displayed on the right screen, at the right time.

#### Group devices by location

With TEOS Manage, users can control, monitor, update and group displays by building, floor or area. Furthermore, adding more devices is easy with the network auto-discover function.

#### Receive device alerts

See the operating status of all connected display devices and receive alerts when one stops working.

#### Green management settings

Schedule on and off times for each display to save energy when devices are not in use.

#### Simplicity

#### Cloud or on-site local deployment

Offering exceptional flexibility and easy access to TEOS Manage whenever and wherever a user needs. Alternatively, you can opt for local deployment and benefit from enhanced levels of security.

#### Easily create digital signage

Create colourful, eye-catching, and touch-interactive signage and distribute it across networked screens. For non-technical users, a revolutionary "e-mail to signage" feature simplifies the workflow – just email a PowerPoint slide to a chosen address.

#### Send emergency alerts

Push urgent alert notifications to all connected displays – such as directions to fire exits.

#### Wide device compatibility

TEOS Manage is compatible with most IP-enabled devices including Sony, LG, Samsung and Philips display screens, tablets and projectors that use PJLink (e.g. Epson or Panasonic, etc). For all other brands, TEOS Player can be integrated to enable signage management.

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

Sony Solutions

### TEOS Manage Specifications

The manage	Number of sites/rooms	Nolimitation
Facility Management	Advanced analytics	Yes
	Alerts	Yes
	Number of users	Nolimitation
Users	Database compatibility	Active Directory
	Rights Management	Advanced access customization
	IP control	Yes
	Scheduling	Yes
Control	Sony compatibility	Professional BRAVIA, projectors, tablets*
	Projector	Pjlink IP protocol
	Other displays compatibility	Yes – Samsung SSSP3 or higher; LG (SNMP); Philips (IP control); etc
	Virtual Reception	Yes (TEOS Reception)
	Notifications	SMS and e-mail
Reception	Badge Printing	Yes**
	Guests Database	Yes (Export functions available)
	Calendar compatibility	Google Calendar, Microsoft Exchange, Office 365
	Customizable background	Yes
	Customizable inputs titles	Yes
	Lockable secured interface	Yes
Meeting room	Scheduling	Yes
	Room control	Yes (TEOS Remote)
		Yes (TEOS Book) with tablet to show/book/cancel or
	Room booking	auto release a meetings
	Content creation	Yes (Simple, and Advanced)
	Main functions	Template design, Facebook, Instagram, Twitter, YouTube, websites, interactive content, PowerPoint, streamings, weather reports, RSS feeds
	Picture format	BMP, JPG, GIF, PNG
	Video format	AVI, MPG, WMV, H264
	Sound format	WAV, MP3, streaming
Signage	Monitoring	Mail
Signage	Scheduling	Yes
	Emergency alarms	Yes
	Content creation elements	Text, image, video element, graphics, TV, website, ticker, date and time, YouTube and audio stream, etc
	External data integration	Function list to show system is open
	Basic signage via email	Yes
	Touch interactive signage	Yes
Deployment	Local server (min requirements)	<ul> <li>Min Windows 2012 / 16GB</li> <li>IIS</li> <li>Net framework 4.5</li> <li>MSSQL Server</li> <li>40GB of available space</li> </ul>
	Alternative deployment	Cloud
	TEM-SRV100	Server software
	TEM-CO10	License for Simple Control use (1 per device required)
Licences	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)
	Standard warranty	1 year for support and new features firmwares
		PSP.TEM100.1X – 1 additional year for support and new features firmware. 1 per device required
Warranty	Extensions	PSP.TEM100.2X – 2 additional years for support and new features firmware. 1 per device required
		PSP.TEM100.4X – 4 additional years for support and new features firmware. 1 per device required

\* TEOS Tablets: TEB-7DSQPM, TEB-10DSQPL, TEB-15DSKP, TEB-22DSK \*\* List of compatible printers available on demand





PrimeSupport On-Demand For full product specifications and features please visit **pro.sony/TEOS** 



### **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

Lecturers can easily present using a range of sources and devices, effortlessly switching multiple types of content controlled by a tablet or smartphone. Content can be displayed from virtually any source, including faculty laptop PCs, documents camera and Blu-ray players, whether you're using the main unit of pod software.

You can also share images wirelessly from personal, portable devices (BYOD).

The personal note taker feature supports interactive capture and note-taking. Simply connect to the main material, capture images, write notes and save all content together during live sessions.

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 <sup>*1</sup>	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	Yes	Yes
Main Unit for Active Group Learning System	Yes	Yes	No
Active Group Learning	Yes	Yes	Yes
Connected Displays	2	2	1
BYOD Mirror Connections	6 plus # POD views	6 plus # POD views	6
Device Bandwidth Control	Yes	Yes	Yes
HDMI Input	2	4	Yes" <sup>3</sup>
Whiteboard, Annotation, Snapshot	Yes	Yes	Yes
Multi Group Sharing	Yes	Yes	No
Multi User Control	Yes	Yes	Yes
Skype 4 Business*2	Yes	Yes	Yes
Active Learning Option	Yes	Yes	Yes
H264 IP Streaming Option	Yes	Yes	Yes

See page 5 for further details

<sup>\*2</sup> Customer is required to locally provide and install Microsoft Office Skype for Business licensed software.
 <sup>\*3</sup> Customer is required to locally provide and purchase HDMI-USB convertor and adaptor unit.

#### Training Programme

TRN.EDU.P.1

PrimeSupp Elite	port		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

#### PrimeSupport On-Demand

#### 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.

1 day training covering user operation and administration operation

#### Vision Exchange Software Update Programme

Model	Code
PEQ-C100 & PEQ-C130	PEQ-C1SU
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-C10	PES-C1SU
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.	

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

# UBICAST

#### 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 guality interactive learning videos for Massive Open Online Course
- 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.



- 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.





**Polls & Quizzes** 





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.

# Sony Solutions

### 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 Al-based video technology analyses the input it receives from connected cameras. The result of this analysis is applied in combination with camera feeds and other 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 – without the expense and complexity of dedicated production teams and specialised additional equipment. 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 Sony's 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\*

Handwriting <u>H(x)-i</u> <u>y(x)</u>

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.

\* These features will be available through a software update during 2019.





# **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.



PrimeSupport

Elite

PrimeSupport On-Demand

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 blank canvas comes to life

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 and broadcast studios.



#### 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

SONY

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.

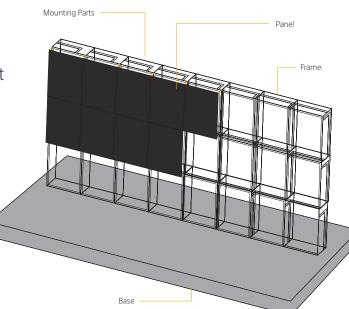
**Crystal LED** 

### **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

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 <sup>7</sup> / <sub>8</sub> x 17 <sup>7</sup> / <sub>8</sub> 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 <sup>31</sup> / <sub>32</sub> x 5 <sup>15</sup> / <sub>16</sub>	
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)	

Crystal LED Display Controller - ZRCT-200

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 <sup>3</sup> / <sub>8</sub> x 13 <sup>3</sup> / <sub>4</sub> x 2 <sup>5</sup> / <sub>8</sub> (without protrusions) 17 <sup>3</sup> / <sub>8</sub> x 14 <sup>15</sup> / <sub>32</sub> x 2 <sup>15</sup> / <sub>16</sub> (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

Including portable and Ultra Short Throw For classrooms or meeting spaces, our portable and desktop projectors are lightweight, durable and easyto-use, combining outstanding performance with costefficiency. Wireless connectivity enables presentation direct from your PC. If space is limited, our Short Throw and Ultra Short Throw models produce big, bright images without needing to be far from the screen, whiteboard or wall.

#### Highlights

- 3LCD BrightEra<sup>™</sup> 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 Series

Four compact and lightweight economical desktop projectors for office and classroom, offering high performance, superior quality and ease of use.

#### 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.

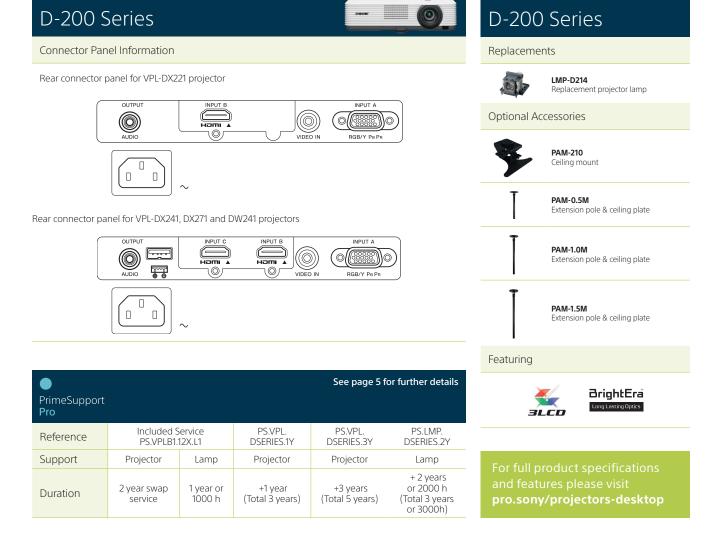
SIONIX

#### Auto On and Ouick Off

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



Specifications			VPL-DX221	VPL-DX241	VPL-DX271	VPL-DW24	
Display system	3 LCD		•	•	•	•	
	0.63"(16mm) x 3, Aspe	ect ratio: 4:3	•	•	•		
Size of effective display area	0.59" (15 mm) x 3, Brig	htEra Aspect ratio: 16:10				•	
Number of size la	2,359,296 (1024x768 x	3) pixels	•	•	•		
Number of pixels	3,072,000 (1280 x 800	x 3) pixels				•	
	Manual Focus		•	•	•	•	
	_	Powered/Manual		Ma	nual		
Projection lens	Zoom	Ratio	Approx. x1.2		Approx. x1.3		
	Throw Ratio		1.47-1.77	1.37-1.80	1.37-1.80	1.36-1.77	
Light source	Ultra high pressure m	ercury lamp / 215 W type	•	•	•	•	
		High		3,000H	(4,000H)		
Recommended lamp replacement time* <sup>3</sup>	Lamp mode:	Standard	5,000H (7,000H)				
		Low	10,000H (10,000H)				
Filter cleaning		1		100	00 H		
Screen size				30" to 300" (0.	76 m to 7.62 m)		
		High	2,800lm	3,300lm	3,600lm	3,100lm	
White & Colour Light output*1	Lamp mode:	Standard	1,900lm	2,300lm	2,300lm	2,100lm	
3		Low	1,600lm	1,900lm	1,900lm	1,800lm	
Contrast ratio (full white / full black)*2			.,		00:1	.,= 50.11	
Speaker					nonaural)		
spearer	Horizontal				o 92 kHz		
Displayable scanning frequency	Vertical						
		•	48 Hz to 92 Hz Maximum display resolution: UXGA 1600 x 1200			0 data	
	Computer signal inpu	Computer signal input					
Display resolution	Video signal input		720/60p, 720/5	AL, SECAM,480/60i, 0p, 1080/60i, 1080/ al signal (HDMI inpu	50i The following ite	ems are availab	
Colour System			NTS	C3.58, PAL, SECAM,	NTSC4 43 PAL-M P	ΔI - N	
Keystone correction (Max.)*4	Vertical	+/- 30 degrees	•	•	•	•	
DSD language	23-languages	English, French, German, Italian, Spanis					
Que e matie en la esta estis en e la encorre e (NI-sta d)							
Operating Instructions languages (Note 1)		English, Germany, F	French, Italy, Spanish,				
	INPUT A			PB PR input connec Audio input connec			
INPUT OUTPUT	INPUT B			l input connector: H udio input connecto			
(Computer / Video /Control)	INPUT C				nector: HDMI 19-pi connector: HDMI a		
	VIDEO IN		Video input connector: Phono jack				
	OUTPUT		Audio output connector: Stereo mini jack (Via USB Type A)				
	POWER SUPPLY				5V 2A power supply	/	
		High	< 41dB				
Acoustic noise*5	Lamp mode:	Standard		< 3	8dB		
		Low		< 3	5dB		
Operating temperature / Operating humid	lity	1	0°C to 35	°C (32°F to 95°F) / 2	0% to 80% (no cond	lensation)	
Storage temperature / Storage humidity			-10°C to +6	50°C (14°F to 140°F) /	20% to 80% (no cor	densation)	
Power requirements					to 1.1A, 50Hz/60Hz		
		High	293 W	284 W	304 W	304 W	
	AC 100 V to 120 V	Standard	217 W	234 W	232W	231 W	
	AC 100 V 10 120 V	Low	194 W	231 W	232W 207 W	198 W	
		2000	269 W			283 W	
Power consumption		High		269 W	282 W		
Power consumption	AC 220 MAR 240 M	High		221 14/	218 W	219 W	
Power consumption	AC 220 V to 240 V	Standard	206 W	221 W			
·			206 W 185 W	199 W	195 W	198 W	
Power consumption	AC 100 V to 120 V	Standard	206 W 185 W •	199 W •	195 W •	•	
Power consumption Standby Mode)	AC 100 V to 120 V AC 220 V to 240 V	Standard Low	206 W 185 W •	199 W •	195 W •	•	
Power consumption Standby Mode)	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V	Standard Low	206 W 185 W • 279W	199 W • 260W	195 W • 265W	• • 264W	
ower consumption Standby Mode) ower consumption (On Mode)	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 100 V to 120 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W • 260W 968 BTU/h	195 W • 265W 103	• • 264W 7BTU	
ower consumption Standby Mode) ower consumption (On Mode) leat dissipation	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V	Standard Low	206 W 185 W • 279W	199 W • 260W 968 BTU/h 914 BTU/h	195 W • 265W 103 982	• • 264W	
Power consumption Standby Mode) Power consumption (On Mode) Heat dissipation Body Colour	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 100 V to 120 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W • 260W 968 BTU/h 914 BTU/h	195 W • 265W 103	• • 264W 7BTU	
Power consumption Standby Mode) Power consumption (On Mode) Heat dissipation Body Colour	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 100 V to 120 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W • 260W 968 BTU/h 914 BTU/h White (Bot	195 W • 265W 103 982	• • 264W 7BTU	
Power consumption Standby Mode) Power consumption (On Mode) Heat dissipation Body Colour Dimensions (W x H x D)	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W • 260W 968 BTU/h 914 BTU/h White (Bot 325.1 x 90.0	195 W • 265W 103 982 tom : Gray)	• • 264W 7BTU	
Power consumption Standby Mode) Power consumption (On Mode) Heat dissipation Body Colour Dimensions (W x H x D) Dimensions (W x H x D) (without protrusion	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W 260W 968 BTU/h 914 BTU/h White (Bot 325.1 x 90.0 325.1 x 79.8	195 W • 265W 103 982 tom : Gray) lx 233.2 mm	• • 264W 7BTU	
Power consumption Standby Mode) Power consumption (On Mode) Heat dissipation Body Colour Dimensions (W x H x D) Dimensions (W x H x D) (without protrusion Mass	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W 260W 968 BTU/h 914 BTU/h White (Bot 325.1 x 90.0 325.1 x 79.8 Approx. 2.	195 W 265W 103 982 tom : Gray) lx 233.2 mm x 230.5 mm	• • 264W 7BTU	
Power consumption Power consumption (Standby Mode) Power consumption (On Mode) Heat dissipation Body Colour Dimensions (W x H x D) Dimensions (W x H x D) (without protrusion Mass Battery for the remote	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	Standard Low	206 W 185 W • 279W 998 BTU/h	199 W 260W 968 BTU/h 914 BTU/h White (Bot 325.1 x 90.0 325.1 x 79.8 Approx. 2. Lithium	195 W 265W 103 982 tom : Gray) bx 233.2 mm x 230.5 mm 7kg (5.9 lb)	• • 264W 7BTU	

\*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. Jigyobu cannot guarantee them.

\*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

E-400 Series

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

pro.sony/projectors-desktop

onnector Pan	el Information					Replacemer	nts
ear connector p	panel for the VPL-	EX435, VPL-EX	455, VPL-EW435 aı	nd VPL-EW455 proj	ectors		LMP-E221 Replacement projector lamp
						Optional Ac	cessories
		ß		MONITOR			IFU-WLM3 USB wireless module
						<b>S</b>	PAM-210 Ceiling mount
•4					S VIDEO	Ţ	PAM-0.5M Extension pole & ceiling plate
						Ī	PAM-1.0M Extension pole & ceiling plate
						Ī	PAM-1.5M Extension pole & ceiling plate
						Featuring	
rimeSupport ro				See page 5 fo	or further details	ЭЦ	BrightEra Long Lesting Optics
eference	Included S PS.VPLB3.		PS.VPL. SESERIES.2Y	PS.VPL. SESERIES.3YL	PS.VPL. SESERIES.5YL		
upport	Projector	Lamp	Projector	Projector	Projector	Forfulle	roduct coocification
		2 voars or	1310215	2 voars ropair	+2 years repair		roduct specifications ares please visit

3 years repair

& loan

extension

& 5 years loan

product

#### E-400 Series

Connector Panel Information

3 years or

3000 h

3 years

+2 years

(Total 5 years)

Pri Pr Re Su

Duration

Specification	c		VPL-EW455	VPL-EW435	VPL-EX455	VPL-EX435	
Specification							
Display system	3 LCD		•	•	•	•	
Size of effective display area	0.59"(15mm) x 3 Brigh	tEra LCD Panel Aspect ratio 16:10	•	•			
	0.63"(16 mm) x 3 Brigh	ntEra LCD Panel Aspect ratio 4:3			• •		
Number of pixels			3,072,000 (1280	0x800 x 3) pixels	2,359,296 (1024	x768 x 3) pixels	
Projection lens	Manual Focus		•	•	•	•	
riojectioniens	Throw Ratio			1.37:1 to 1.80:1		1.47:1 to 1.77:1	
Light source				Ultra high pressure me	ercury lamp 225W type		
		High		4,00	00 H		
Recommended lamp replacement time*1	Lamp mode:	Standard		6,00	00 H		
replacement time		Low		10,00	н ос		
Filter cleaning*1		1		10,00			
Screen size				30" to 300" (0.7	76 m to 7.62 m)		
		High	3500 lm	3100 lm	3600 lm	3200 lm	
White & Colour Light output*2	Lamp mode:	Standard	2500 lm	2200 lm	2500 lm	2300 lm	
white a colour Light output	Lamp mode.	Low	2100 lm			1800 lm	
Contract ratio (full white / full bla	ck)*3	LUW	2100 1111	1900 lm 2000	1900 lm	1000 1111	
Contrast ratio (full white / full bla	(K) -						
Speaker				16W (mo			
Displayable scanning frequency	Horizontal			15khz to			
	Vertical			48 Hz to			
	Computer signal input	t	Ma	iximum display resolution	n: 1600 x 1200 dots, fV:60	DHz	
Display resolution	Video signal input		NTSC, PAL, SECAM, 48	0/60i, 576/50i, 480/60p, 1080/60p	576/50p, 720/60p, 720/5 , 1080/50p	0p, 1080/60i, 1080/50i,	
Colour System			N	SC3.58, PAL, SECAM, NTS	C4.43, PAL-M, PALN, PAL	60	
Keystone correction (Max.)*4	Vertical		+/-20 0	degrees	+/-30 0	legrees	
OSD language	27-languages		in, Italian, Spanish, Portuguese, Japanese, Chinese, Korean, Russian, Dutch, Norwegian, Swe ish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Gleek,Czech, Slovakia, Romania				
	INPUT A		RGB / Y PB PR input o	onnector: Mini D-sub 15 pin	female/ Audio input conr	ector: Stereo mini jack	
	INPUT B			ector: Mini Dsub 15 pin fema			
	INPUT C			r: HDMI 19-pin, HDCP supp		-	
	INPUT D			r: HDMI 19-pin, HDCP supp			
			nowiniput connecto				
	S VIDEO IN			S Video input conne			
INPUT OUTPUT (Computer / Video /Control)	VIDEO IN			Video input conne			
(comparer / viaco / control)	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		29	dB		
Operating temperature / Operation	ng humidity		0°C 1	:o 40°C / 32°F to 104°F (20	0% to 80%; no condensa	tion)	
Storage temperature / Storage hu	umidity		-10°C t	o +60°C / 14°F to +140°F (	(20% to 80%; no conden	sation)	
	AC 100 V to 240 V, 3.4	A to 1.5 A, 50 Hz / 60 Hz	•				
Power requirements	AC 100 V to 240 V, 3.2/	A 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			•	•	
		High	332 W	318 W	333	3 W	
	AC 100 V to 120 V	Standard	270 W	260 W		) W	
		Low	233 W	232 W		3 W	
Power consumption		High	319 W	306 W		) W	
	AC 220 V to 240 V	Standard	261 W	252 W		) W	
	7 1C 220 V 10 240 V	Low	201 W	232 W		W	
	AC 100 V/to 120 V/	LUW	223 W			**	
Power consumption (when "Standby mode" is set to "Low")	AC 100 V to 120 V			0.5			
<u> </u>	AC 220 V to 240 V	E FINIL AND I C PINIL II		0.5			
Power Consumption	AC 100 V to 120 V	5.5W(LAN) / 6.0W (optional WLA)					
(Networked Standby Mode)	AC 220 V to 240 V	5.8W(LAN) / 6.3W (optional WLA)	N module) / 6.6W (ALL Tern			e" is set to "Standard")	
Standby Mode / Networked Stan	•			Approx. 10			
Wireless Network(s) On/Off Swite	h	Press the MENU button,	, then select [Connection/P	ower] > [WLAN Settings] > [	WLAN Connection] > Selec	t On or Off	
Heat dissipation	AC 100 V to 120 V		1133 BTU	1085 BTU	1136	BTU	
	AC 220 V to 240 V		1088 BTU	1044 BTU	1092	BTU	
Dimensions (W x H x D) (without	protrusions)		Apr	ox. 365 x 96.2 x 252 mm	(14 3/8 X3 25/32 X9 29/3	32 ")	
Mass				Approx. 3.9	kg (8.6 lb )		
Supplied accessories	RM-PJ8 Remote Com	mander (1), Lithium battery: CR2025 (1	I), AC Power Cord (1), Ope	rating Instructions (CDROI	M) (1), Quick Reference M	anual (1) Lens cap (1)	
Optional Accessories		l	_MP-E221, IFU-WLM3 (WL	AN module)			

\*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.

\*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.

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### 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.

	eries					E-500	Jenes
Connector Pan	el Information	1				Replaceme	nts
Rear connector p	anel for the VPL	EX575, VPL-EV	V575, and VPL-EW5	78 projectors		E	LMP-E221 Replacement projector lamp
				RS-232C		Optional Ac	cessories
		ß					IFU-WLM3 USB wireless module
				AUDIO R		<b>\$</b>	PAM-210 Ceiling mount
•4			INPUT A RGB / Y Ps Ps		AUDIO S VIDEO	Ţ	PAM-0.5M Extension poles & ceiling plate
				00		Ī	<b>PAM-1.0M</b> Extension poles & ceiling plate
						Ĩ	PAM-1.5M Extension poles & ceiling plate
						Featuring	
PrimeSupport Pro				See page 5 f	or further details	31	BrightEra Long Lasting Optics
	Included PS.VPLB3		PS.VPL. SESERIES.2Y	PS.VPL. SESERIES.3YL	PS.VPL. SESERIES.5YL		
Reference		Lamp	Projector	Projector	Projector	Forfull-p	roduct specifications
Reference Support	Projector						

Specifications			VPL-EW578	VPL-EW575	VPL-EX575	
•	2160					
Display system	3 LCD	tEra ICD Danel Assart	•	•	•	
Size of effective display area		tEra LCD Panel Aspect ratio 16:10	•	•		
	. , _	ntEra LCD Panel, Aspect ratio: 4:3			•	
Number of pixels	3,072,000 (1280x800 )		•	•		
	2,359,296 (1024x768 x	3) pixels			•	
Projection lens	Manual Focus		•	•	•	
	Throw Ratio		1.10:1 to	o 1.79:1	1.40:1 to 2.27:1	
Light source		1	Ultra hi	gh pressure mercury lamp 225	W type	
Decommonded laws		High		4,000 H		
Recommended lamp replacement time*1	Lamp mode:	Standard		6,000 H		
····		Low		10,000 H		
Filter cleaning / replacement cycle (M	lax.)*1			10,000 H		
Screen size				30" to 300" (0.76 m to 7.62 m)		
		High	4300	) lm	4200 lm	
White & Colour Light output*2	'hite & Colour Light output*2 Lamp mode:		3200	) lm	3000 lm	
		Low	2400	) lm	2300 lm	
Contrast ratio (full white / full black)*	3			20000:1(SYQ) 12000:1(C1)		
Speaker				16W (monaural)		
	Horizontal			15 kHz to 92 kHz		
Displayable scanning frequency	Vertical			48 Hz to 92 Hz		
			A A - D store		lata 11/60112	
<b>N</b> 1 1 1	Computer signal input	t		isplay resolution: 1600 x 1200 d		
Display resolution	Video signal input			, 576/50i, 480/60p, 576/50p, 7. 1080/50i, 1080/60p, 1080/50p		
Colour System			NTSC3.58, P	AL, SECAM, NTSC4.43, PAL-M, F	AL-N, PAL60	
Keystone correction (Max.)*4	Vertical		+/-20 d	egrees	+/-30 degrees	
OSD language	27-languages		an, Spanish, Portuguese, Japanes ish, Vietnamese, Farsi, Finnish, In			
	INPUT A			Mini D-sub 15 pin female/Audio i		
	INPUT B					
				D-sub 15 pin female/Audio input		
	INPUT C			-pin, HDCP support/Audio input		
S	INPUT D		HDMI input connector: HDMI 19	-pin, HDCP support/Audio input	connector: HDMI audio support	
	S VIDEO IN		S V	'ideo input connector: Mini DIN 4-	pin	
INPUT OUTPUT	VIDEO IN		N N	/ideo input connector: Phono jacl	<	
(Computer / Video /Control)	OUTUT		MONITOR output connector:	Mini D-sub 15 pin female/Audio o	output connector: Stereo mini	
	Y PB/CB PR/CR		Con	nponent: Mini D-sub 15 pin fen	nale	
	REMOTE		D-sub 9-pin male/RS232C			
	LAN		RJ45,100BASE-TX (Shared with HDBaseT) RJ-45, 10BASET/100BASE			
	USB		Type-A & Type-B			
	MICROPHONE IN			Microphone jack: Mini Jack		
Acoustic noise*5	Lamp mode:	Low		29dB		
Operating temperature / Operating h			0°C to 40°C /	32°F to 104°F (20% to 80%; no	rondensation)	
Storage temperature / Storage humie				/ 14°F to +140°F (20% to 80%; no		
Storage temperature / Storage humin	-	A to 1.5 A, 50 Hz / 60 Hz	•	141 10 1140 1 (20% 10 00%, 11	Condensation	
Power requirements	AC 100 V to 240 V, 3.3			•		
	AC 100 V to 240 V 2.4	A to 15 A 50 Uz / 60 Uz			•	
	AC 100 V to 240 V, 3.4		244114		222.144	
		High	344 W	332 W	333 W	
	AC 100 V to 240 V, 3.4 AC 100 V to 120 V	High Standard	278 W	332 W 270 W	270 W	
Power consumption		High Standard Low	278 W 241W	332 W 270 W 233 W	270 W 233 W	
Power consumption		High Standard	278 W	332 W 270 W	270 W	
Power consumption		High Standard Low	278 W 241W	332 W 270 W 233 W	270 W 233 W	
Power consumption	AC 100 V to 120 V	High Standard Low High	278 W 241W 328 W	332 W 270 W 233 W 319 W	270 W 233 W 320 W	
Power consumption Power consumption (when	AC 100 V to 120 V	High Standard Low High Standard	278 W 241W 328 W 270 W	332 W 270 W 233 W 319 W 261 W	270 W 233 W 320 W 260 W	
	AC 100 V to 120 V AC 220 V to 240 V	High Standard Low High Standard	278 W 241W 328 W 270 W	332 W 270 W 233 W 319 W 261 W 225 W	270 W 233 W 320 W 260 W	
Power consumption (when "Standby mode" is set to "Low")	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V	High Standard Low High Standard	278 W 241W 328 W 270 W 234 W	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W	270 W 233 W 320 W 260 W 225 W	
Power consumption (when	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V	High Standard Low High Standard	278 W 241W 328 W 270 W 234 W 234 W 5.5W(LAN) / 6.0W (optional W	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W WLAN module) / 6.2W (ALL Termin	270 W 233 W 320 W 260 W 225 W	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard")	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V	High Standard Low High Standard	278 W 241W 328 W 270 W 234 W 234 W 5.5W(LAN) / 6.0W (optional W	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin VLAN module) / 6.6W (ALL Termin	270 W 233 W 320 W 260 W 225 W	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard") Standby Mode / Networked Standby	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V	High Standard Low High Standard Low	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional W 5.8W(LAN) / 6.3W (optional W	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin Approx. 10 Minutes	270 W 233 W 320 W 260 W 225 W nals and Networks Connected) nals and Networks Connected)	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard")	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V Mode Activated	High Standard Low High Standard	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional W 5.8W(LAN) / 6.3W (optional W 000000000000000000000000000000000000	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin NLAN module) / 6.6W (ALL Termin Approx. 10 Minutes ] > [WLAN Connection] > Select On	270 W 233 W 320 W 260 W 225 W als and Networks Connected) anals and Networks Connected) or Off	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard") Standby Mode / Networked Standby	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V Mode Activated AC 100 V to 120 V	High Standard Low High Standard Low	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional W 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 174 BTU	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin NLAN module) / 6.6W (ALL Termin Approx. 10 Minutes ] > [WLAN Connection] > Select On 1133 BTU	270 W 233 W 320 W 260 W 225 W als and Networks Connected) anals and Networks Connected) or Off 1136 BTU	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard") Standby Mode / Networked Standby Wireless Network(s) On/Off Switch Heat dissipation	AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V AC 200 V to 120 V AC 200 V to 240 V AC 100 V to 120 V AC 220 V to 240 V Mode Activated AC 100 V to 120 V AC 220 V to 240 V	High Standard Low High Standard Low	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional V 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 174 BTU 1119 BTU	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin Approx. 10 Minutes ] > [WLAN Connection] > Select On 1133 BTU 1088 BTU	270 W 233 W 320 W 260 W 225 W als and Networks Connected) anals and Networks Connected) or Off 1136 BTU 1092 BTU	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard") Standby Mode / Networked Standby Wireless Network(s) On/Off Switch Heat dissipation Dimensions (W x H x D) (without prot	AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V AC 200 V to 120 V AC 200 V to 240 V AC 100 V to 120 V AC 220 V to 240 V Mode Activated AC 100 V to 120 V AC 220 V to 240 V	High Standard Low High Standard Low	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional V 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 1174 BTU 1119 BTU Aprox. 365 x	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin Approx. 10 Minutes ] > [WLAN Connection] > Select On 1133 BTU 1088 BTU 96.2 x 252 mm (14 3/8 X3 25/3	270 W 233 W 320 W 260 W 225 W als and Networks Connected) and Networks Connected) or Off 1136 BTU 1092 BTU 2 X9 29/32 ")	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard") Standby Mode / Networked Standby Wireless Network(s) On/Off Switch Heat dissipation	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V Mode Activated AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	High Standard Low High Standard Low Press the MENU button, then select [Co	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional V 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 1174 BTU 1119 BTU Aprox. 365 x Approx. 4.	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin Approx. 10 Minutes ] > [WLAN Connection] > Select On 1133 BTU 1088 BTU 96.2 x 252 mm (14 3/8 X3 25/3 1kg (9 lb)	270 W 233 W 320 W 260 W 225 W als and Networks Connected) and Networks Connected) or Off 1136 BTU 1092 BTU 2 X9 29/32 ") Approx. 4 kg (8.8 lb)	
Power consumption (when "Standby mode" is set to "Low") Power Consumption (when "Standby Mode" is set to Standard") Standby Mode / Networked Standby Wireless Network(s) On/Off Switch Heat dissipation Dimensions (W x H x D) (without prot	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V Mode Activated AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	High Standard Low High Standard Low	278 W 241W 328 W 270 W 234 W 5.5W(LAN) / 6.0W (optional V 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 5.8W(LAN) / 6.3W (optional V 1174 BTU 1119 BTU Aprox. 365 x Approx. 4.	332 W 270 W 233 W 319 W 261 W 225 W 0.5 W 0.5 W NLAN module) / 6.2W (ALL Termin Approx. 10 Minutes ] > [WLAN Connection] > Select On 1133 BTU 1088 BTU 96.2 x 252 mm (14 3/8 X3 25/3 1kg (9 lb)	270 W 233 W 320 W 260 W 225 W als and Networks Connected) and Networks Connected) or Off 1136 BTU 1092 BTU 2 X9 29/32 ") Approx. 4 kg (8.8 lb)	

\*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.

<sup>\*4</sup> 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.

Ultra Short Throw Series

### Ultra Short Throw Series\*



Three ultra short throw projectors that create shadowless presentations. Dual pen interactivity and PC-less functionality available. Energy efficient, wireless-ready with eco-friendly capabilities.

#### Ultra Short throw distance

#### Produces a 2.03m (80-inch) diagonal screen size image from only 43cm (17.1-inch) or 46cm (18.2-inch) away from the screen.

#### Adjustable optical zoom and lens shift for speedy, fuss-free installation in any classroom. Generous connections simplify hook-ups with PCs, DVD players, microphones and other AV devices.

	SONY		
Ultra Short Throw Series		S-Serie	€S
Connector Panel Information		Replacemer	nts
Rear connector panel for the VPL-SX631, VPL-SW631, VPL-SW	636C		LMP-E220 Replacement projector lamp
		Optional Ac	cessories
S VIDEO IN/VIDEO IN (INPUT A CONTACT OF A C	AN		IFU-WLM3 USB wireless module
		A STATE OF S	IFU-PN250A Interactive Pen replacement for VPL-SW636C model only
() () () () () () () () () () () () () (		1. Sector of the	IFU-PN250B Interactive Pen replacement for VPL-SW636C model only
		Featuring	
		) E	Long Lesting Optics

Easy to adjust to any whiteboard

<ul> <li>PrimeSupport</li> <li>Pro</li> </ul>				See page 5 f	or 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

#### For full product specifications and features please visit **pro.sony/short-throw**

\* Ultra Short Throw Series will be discontinued from April 2019

Specifications			VPL-SX631	VPL-SW631	VPL-SW636C	
White & Colour Light output	3,300 lumens (High	mode)	•	•	•	
Size of effective	0.59" (15 mm) x 3 Bri	ghtEra LCD Panel, Aspect ratio: 16:10		•	•	
display area	0.63" (16 mm) x 3 Bri	ghtEra, Aspect ratio: 4:3	•			
	3,072,000 (1280 x 80	0 x 3) pixels		•	•	
Number of pixels	2,359,296 (1024 x 768	8 x 3) pixels	•			
Contrast ratio (full white / full black)*1				3000:1		
Light source			Ultra high p	ressure mercury lamp /	255 W type	
		High		4,000 H		
Recommended lamp replacement time <sup>*2</sup>	Lamp mode:	Standard		6,000 H		
		Low		10,000 H		
Filter cleaning*3			Same time as t	he lamp replacement is	recommended	
	Zoom	Optional: Manual (Approx. x1.03)	•	•	•	
	Focus	Manual	•	•	•	
Projection lens	Lens shift	Manual, Vertical: +/- 3.1% Horizontal: +/- 2.3%	•			
		Manual, Vertical: +/- 3.7% Horizontal: +/- 2.3%		•	•	
	Throw ratio	0.27:1 (0.267 - 0.274:1)	•	•	•	
Keystone correction	Max. Vertical: +/- 5 d	legrees	•	•		
	Max. Vertical: +4/-1	degrees			•	
		High		35dB		
Acoustic noise	Lamp mode:	Standard		32dB		
		Low		28dB		
OSD language	27-languages		n, Polish, Vietnamese, Fa raditional Chinese, Kore esian, Hungarian, Greel	arsi, Finnish, Indonesiar an, Thai, Vietnamese, A <	, Hungarian, Greek, rabic, Farsi, Finnish,	
Disalas as a latin	Computer signal inp	ut		ay resolution: UXGA 16		
Display resolution	Video signal input			0/60p, 575/50p, 720/6 i, 1080/50i, 1080/60p, 1		
	INPUT A		RGB / Y PB PR input connector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack			
	INPUT B			onnector: Mini D-sub 1 put connector: Stereo		
	INPUT C			nnector: HDMI 19-pin, it connector: HDMI auc		
	VIDEO IN		Video	input connector: Phor	io jack	
	S VIDEO IN		S Video i	input connector: Mini I	DIN 4-pin	
	Monitor OUT		Monitor ou	tput connector: Mini D	-sub 15-pin	
INPUT OUTPUT (Computer / Video /Control)	Audio OUT			Stereo mini		
(computer / video / control)	Built in Interactive ca	apability			•	
	Dual Pen				•	
	Auto Calibration				•	
	PC Free Interactive				•	
	Driver less				•	
	RS-232C			D-sub 9-pin male		
	MICROPHONE INPUT	ī		Mini jack		
	LAN		RJ-45, 10BASE-T/100BASE-TX			
	USB			Type-A, Type-B		
Speaker			5	peaker 16 W (monaura	l)	
Operating temperature / Operating humidity				to 104°F) / 20% to 80%		
Storage temperature / Storage humidity				to +140°F) / 20% to 809	6 (no condensation)	
Power requirements		A to 1.5 A, 50 Hz / 60 Hz	•	•		
	AC 100V to 240V. 3.5	A to 1.6 A, 50 Hz / 60 Hz			•	
Power consumption		High	305 W	330 W	341 W	
AC 100 V - 120 V	Lamp mode:	Standard	261 W	261 W	274 W	
		Low	232 W	231 W	266 W	
Power consumption		High	294 W	330 W	328 W	
AC 220 V - 240 V	Lamp mode:	Standard	252 W	252 W	245 W	
	46406344	Low	225 W	224 W	239 W	
Power consumption (Standby Mode)	AC 100 V to 120 V	0.5 W	•	• 4400 DTU	• 4460 DTU	
Heat dissipation	AC 100 V to 120 V		1041 BTU	1126 BTU	1163 BTU	
Outside Dimensions (INF, ILL, D) ( 111 - 1	AC 220 V to 240 V		1003 BTU	1092 BTU	1119 BTU	
Outside Dimensions (W x H x D) (without protru	usions)			382mm (14 21/32 x 5 7,		
Mass	AC 100 1/ 100 1/	E G W / E O W	_	(13 lb)	6.3kg (14 lb)	
Network Standby (LAN/WLAN) mode power consumption (Std / Low)	AC 100 V - 120 V	5.6 W / 5.9 W	•	•	•	
	AC 220 V - 240 V	5.6 W / 6.2 W	•	• - CD2025 (1) + C =	•	
Supplied accessories		PSS-645 Wall Mount, RM-PJ8 Remote Commai Instructions (CD-ROM) (1), Quick Reference Man Regulation		vare (CD-ROM) (1), War		
Optional Accessories		Replacement lamp (LMP-E220), Wireless	LAN Module (IFU-WLM	3). IFU-PN250A (1), IFU	-PN250B (1)	

\*1 This value is an average.
 \*2 The figures are the expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used.

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

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### **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, longdistance, and high-quality digital transmission solution\*.

#### Audio / Speaker bypass

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

1

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#### WUXGA resolution

installation projectors

4000 - 5000 lumens brightness.

\* VPL-CH355 and VPL-CH375 only

CH-Seri	es			Replaceme	nts
	nel Information				<b>LM</b> Rej Ian
		PL-CH375 projectors			<b>LM</b> Re lan
				Optional Ac	cess
					<b>IFL</b> US
Rear connector pa	inel for the VPL-CH350 & VPL-	-CH370 projectors			
			***	Y	<b>PA</b> Cei
				Ţ	<b>PA</b> Ext
		See	e page 5 for further details	Ī	<b>PA</b> Ext
PrimeSupport <b>Pro</b>				T	
Reference	Included Service	e PS.VPLB3.123.L1	PS.LMP.FCSERIES.2Y		<b>PA</b> Ext
Support	Projector	Lamp	Lamp	I	
Duration	3 years	1 years or 1000 h	+ 2 years or 2000 h (Total 3 years or 3000 h)	Featuring	

PrimeSupport Elite		See page 5 for further details
Reference	PSP.VPLC-SER.EXC.3	PSP.VPLC-SER.EXC.5
Support	Projector	Projector
Duration	5 years	5 years

#### LMP-C250

CH-Series



LMP-C281 Replacement projector lamp (CH370/CH375)

Replacement projector lamp (CH350/CH355)

**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



**3LCD** 



Specifications			VPL-CH350	VPL-CH355	VPL-CH370	VPL-CH37
Dicplay system	2 LCD system		•	•	•	•
Display system	3 LCD system	Acport ratio: 16:10	•	•	•	•
Size of effective display area Number of pixels	0.64" (16.3 mm) × 3, 6,912,000 (1920 × 12	•	•		•	
Number of pixels	Zoom				-	
		Optional: Manual (Approx. x1.45)	•	•	•	•
Projection lens	Focus Lens shift	Manual Manual (Vertical: +/- 5%, Horizontal: +/- 4%) Horizontal: +/- 2.3%	•	•	•	•
	Throw ratio	1.5:1 to 2.2:1	•	•	•	•
		mercury lamp / 250 W type	•	•	-	•
Light source		mercury lamp / 280 W type			•	•
	onta nigri pressure	High	3.00	D0 H		о н
Recommended lamp	Lamp mode:	Standard		он ОО Н	-	00 H
replacement time*2	Lump mode.	Low		00 H		00 H
Filter cleaning		LOW		ne as the lamp rep		
Screen size	40" to 300" (1 02 m	to 7.62 m) (measured diagonally)	•	•		
	40 10 500 (1.02 11	High	400		500	0 lm
White & Colour Light output	Lamp mode	Standard		0 lm	360	
white & Colour Light output	Lamp mode:					
Contrast ratio (full white / full black)	2500:1	Low	•	•	•	0 lm
Contrast ratio (full white / full black)	2500:1	Hink				
Acoustic poico	Lamp moder	High		dB		dB
Acoustic noise	Lamp mode:	Standard		dB		dB
	Harden 1.1	Low		dB		dB
Display scanning frequency	Horizontal	19 kHz - 92 kHz	•	•	•	•
	Vertical	48 Hz - 92 Hz	•	•	•	•
Display resolution	Computer signal in	put	Maximum display resolution: 1920 × 1200 dots <sup>*1</sup> Panel display resolution: 1920 × 1200 dots			
Video signa		1080/60i, 1080/50i, 108			p, 576/50p, 720/60p, 720/50p, 0/60p, 1080/50p, 1080/24p	
Colour system	NTSC3.58, PAL, SEC/	AM, 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, Portu Dutch, Norwegian, Swedish, Thai, Arabic, Tu				
	INPUT A RGB / Y PB PR input connector:			Mini D-sub 1	ō-pin (female)	
		Audio input connector:		Stereo r	nini jack	
	INPUT B / INPUT C	HDMI input connector:		HDMI 19-pin,	HDCP support	
	S VIDEO IN	S video input connector:		Mini DI	N 4-pin	
	VIDEO IN	Video input connector:		Phon	o jack	
	OUTPUT	Monitor output connector*2:		Mini D-sub 1	ō-pin (female)	
		Audio output connector*5:		Stereo r	nini jack	
INPUT OUTPUT (Computer / Video /Control)	REMOTE			D-sub 9-j	pin (male)	
(compare) / flaco / control)	SPEAKER		12 W x 1 (monaural)			
	MICROPHONE INPU	IT		Mini	jack	
	LAN		RJ45, 100BASE-TXT / 100BASE-TX	RJ45, 100BASE-TX (Shared with HDBaseT)	RJ45, 100BASE-TX	RJ45, 100BASE-T2 (Shared wit 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)	٠	•	•	•
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	3.6 A to 1.6 A, 50/60 Hz	•	•		
Power requirements	AC 100 V to 240 V, 3	3.9 A to 1.7 A, 50/60 Hz			•	•
		High	35.	3 W	388	3 W
Power consumption AC 100 V - 120 V	Lamp mode:	Standard	285	5 W	315	5 W
		Low	265	5 W	279	9 W
		High	334	4 W	36	7 W
Power consumption AC 220 V - 240 V	Lamp mode:	Standard	272	2 W	299	9 W
		Low	254	4 W	266	5 W
	AC 100 V to 120 V		4.7W / 0.5W	6.1W / 0.5W	4.7 / 0.3W	6.1W / 0.3V
Power consumption (Standby Mode)	AC 220 V to 240 V		4.9W / 0.5W	6.2W / 0.5W	4.9 / 0.5W	6.2W / 0.5
	AC 100 V to 120 V			BTU		BTU
Heat dissipation	AC 220 V to 240 V		1139			BTU
Outside Dimensions (W x H x D) (without protru				D6 × 113 × D 330.5 r		
			rippion. 40			
Mass				Approx. 5.	7 ka / 12 lh	

rojectors

**CH-Series** 

 $^{\star\!1}$   $\,$  Available for VESA Reduced Blanking signal.

### **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

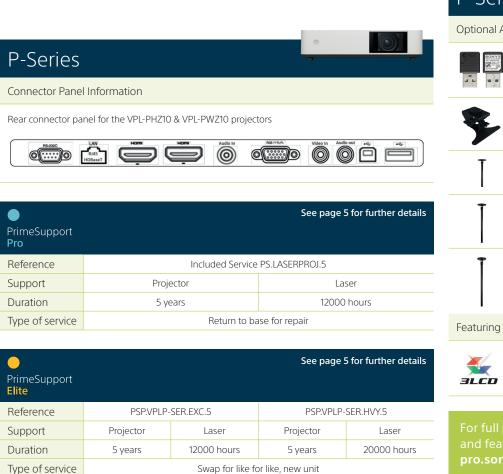
Reliable, long-lasting laser light source offers up to 20,000 hours virtually maintenance-free operation.



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** 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



Specifications	)		VPL-PHZ10	VPL-PWZ10	
White & Colour Light output	3 LCD system		•	•	
Size of effective display area	0.76" (19.3 mm) x 3 E	rightEra LCD Panel	•	•	
	WUXGA: 6,912,000 (	1920 x 1200 x 3) pixels	•		
Number of pixels Size of effective display area	WXGA: 3,072,000 (1280 x 800 x 3) pixels			•	
size of effective display area	Aspect ratio: 16:10		• •		
	Zoom		Manual (Approx. x1.45)		
	Focus		Manual		
Projection lens	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	rocariengin(min)/ Apertare		Laser + Phosphor		
Filter cleaning			20,000		
		High	5,000 lm		
White & Colour Light output *1	Lamp mode:	Standard	4,000 lm		
innice & colour Light output	Lump mode.	Low	3000 lm		
Contrast ratio (full white / full blac	k) *2	LOW			
Key stone correction (Max) *3	N)		500,000:1 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	Horizontal		16W (monaural)		
Display scanning frequency	Horizontal Vertical		15 kHz to 92 kHz		
		+	48 Hz to 92 Hz		
	Computer signal inp	ut	Maximum display resolution: 1920 x 1200 dots		
Display scanning frequency	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 Gleek,Czech,Slovakia,Romania		
			English, Germany, French, Italy, Spanish, Russian, Simplified Chinese, Japanese, Arabic		
Operating Instructions languages					
	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/YPBPR, HDCP support, HDMI audio support HDMI input connector: HDMI 19-pin, Digital RGB/YPBPR, HDCP support, HDMI audio support		
	INPUT C		HDMI input connector: HDMI 19-pin, Digital RGB/YPBPR, HDCP support, HDMI audio support		
INPUT OUTPUT	INPUT D		HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN (100BASE-TX), RS-232C)		
Computer / Video /Control)	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)		
	USB		TYPE-A / TYPE-B		
		High	36dB		
Acoustic noise *4	Lamp mode:	Standard	28d		
		Low	25dB		
Operating temperature / Operating			0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)		
Storage temperature / Storage hur	midity		-10°C to +60°C (14°F to +140°F) / 2		
Power consumption		High	424 W	399 W	
AC 100 V - 120 V	Lamp mode:	Standard	287 W	266 W	
		Low	217 W	198 W	
Power consumption		High	403 W	377 W	
Power consumption AC 220 V - 240 V	Lamp mode:	Standard	279 W	256 W	
		Low	211 W	193 W	
Power consumption (when	AC 100 V to 120 V		0.5 W	0.5 W	
Standby mode" is set to "Low")	AC 220 V to 240 V		0.5 W	0.5 W	
Power Consumption	AC 100 V to 120 V		369W	342W	
Networked Standby Mode)	AC 220 V to 240 V		353W	328W	
Power Consumption	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")		
(Networked Standby Mode)	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		369W	342W	
	AC 220 V to 240 V		353W	328W	
lost dissination	AC 100 V to 120 V		1446BTU	1361BTU	
Heat dissipation AC 220 V to 240 V		1374BTU	1286BTU		
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 354.6 mm		
Mass			Approx. 8	3.7 kg	
Supplied accessories			Remote commander (RM-PJ8), Battery (CR2025), A Quick Reference Manual, Warranty card, Security Application softw	y label, Flyers (WEEE) / (EU battery direction),	

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

\*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.

### **F-Series** Lamp Projectors\*



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**

**F-Series** 

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.

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#### **F-Series**

**Optional Accessories** 



LMP-F272 (FH31) Replacement lamp



LMP-F370 (VPI-FH65) Replacement lamp



#### LMP-F280 (VPL-FH60) Replacement lamp

Ceiling mount and extension poles for VPL-FH31/60/65 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





Rear connector ] (0) panel for the 000000 . VPL-FH31 projector

**Connector Panel Information** 

Rear connector panel for VPI-FH60/65 projectors

<ul> <li>PrimeSupport</li> <li>Pro</li> </ul>		Se	e page 5 for further details
Reference	Included Service	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)

ONTROLS

[0,0]

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	

\* VPL-FH31 will be discontinued from April 2019



Specifications			VPL-FH31
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	•
	Focus		Manual
	Zoom - Powered/	Manual	Manual
Projection lens	Zoom - Ratio		Approx. x 1.6
	Throw Ratio		1.39:1 to 2.23:1
	Powered/Manual		Manual
Lens shift	Range Vertical		+60%
	Range Horizontal		+/- 32%
	Type/Wattage		Ultra high pressure mercury lamp / 330 W type
Light source	System		330 W type
Decommon ded large	System	High	3,000 H
Recommended lamp replacement time* <sup>2</sup>	Lamp mode:	Standard	4,000 H
Filter cleaning*2	15000 H Samo as	the lamp replacement is recommended	4,00011
-			•
Screen size*1	40 10 600 (1.021	m to 15.24 m) (measured diagonally)	
White & Colour Light output	Lamp mode:	High	4300 lm
Contract web - (full and in 10 little	Standard		3400 lm
Contrast ratio (full white / full blac			2000:1
Displayable scanning frequency	Horizontal		14 kHz to 93 kHz
	Vertical		47 Hz to 93 Hz
	Computer signal i	nput	Maximum display resolution: 1920 x 1200 dots *4
Display resolution	splay resolution 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, 1080/24p
Colour System			NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N
Keystene correction (May)	Vertical		+/- 30 degrees
Keystone correction (Max.)	Horizontal		+/- 30 degrees
OSD language	23-languages		English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Indonesian, Finnish, Hungarian
	INPUT A		RGB / Y PB PR input connector: 5BNC (female)/Audio input connector: Stereo mini jack
	INPUT B		RGB input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack (shared with INPUT C
	INPUT C		DVI-D input connector: DVI-D 24-pin (Single link), HDCP support Audio input connector: Stereo mini jack (shared with INPUT B)
	INPUT D		HDMI input connector: HDMI 19-pin, HDCP support
INPUT OUTPUT	s video IN		S video input connector: Mini DIN 4-pin Audio input connector: Pin jack (x2) (shared with VIDEO IN)
(Computer / Video /Control)	VIDEO IN		Video input connector: Pin jack Audio input connector: Pin jack (x2) (shared with S VIDEO IN)
	OUTPUT A		Monitor output connector <sup>45</sup> : Mini D-sub 15-pin (female), Audio output connector <sup>46</sup> : Stereo mini jack (variable out)
	REMOTE		RS-232C connector: D-sub 9-pin (female)
	LAN		RJ-45, 10BASE-T/100BASE-TX
	IR (Control S)		Control S input connector: Stereo mini jack
Acoustic noise	Lamp mode:	Standard	30 dB
Operating temperature / Operating			0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)
Storage temperature / Storage hur	5 ,		-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)
Power requirements			AC 100 V to 240 V, 4.0 A to 1.6 A, 50/60 Hz
-	·		400 W
Power consumption Lamp mode: High	AC 220 V to 240 V		380 W
Power consumption (Standby Mode" is set to "Low")	AC 100 V to 120 V		0.2 W
	AC 100 V to 120 V AC 220 V to 240 V		0.2 W
			9.2 W (LAN)
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V		
,	AC 220 V to 240 V		10.4 W (LAN)
Heat dissipation	AC 100 V to 120 V		1365 BTU/h
	AC 220 V to 240 V		1297 BTU/h
Dimensions (W x H x D) (without protrusions)			Approx. 390 x 134 x 463 mm
Mass			Approx. 8.3 kg (18 lb)
Supplied accessories			Remote commander (RM-PJ19)

\*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 From INPUT A and INPUT B.
\*6 Works as an audio switcher function. Output from a selected channel; not available in
\*7 Available via BKM-FW16.

Specifications	S (cont.)		VPL-FH60	VPL-FH65	
Display device	3 LCD		•	•	
Size of effective display area		ghtEra LCD Panel, Aspect ratio: 16:10		•	
	. ,		•	•	
Number of pixels	6,912,000 (1920 x 120	o x 5) pixels			
	Focus		Pow		
Projection lens*1	Zoom - Powered/Ma	nual	Pow	ered	
. rojection teno	Zoom - Ratio		Appro	x. x 1.6	
	Throw Ratio		1.39:1 to	0 2.23:1	
	Powered/Manual		Pow	ered	
Lens shift	Range Vertical		-5%, -	±60%	
	Range Horizontal		+/-:		
Linkt course	_				
Light source	Type/Wattage	High pressure mercury lamp	280 W type	330 W type	
Recommended lamp	Lamp mode:	High	3,00	юн	
replacement time*2	•	Standard	4,00	00 H	
Filter cleaning*2			20,000 H Same as the lamp r	eplacement is recommended	
Screen size*1			40" to 600" (1.02 m to 15.24	m) (measured diagonally)	
		High	5000 lm	6000 lm	
White & Colour Light output	Lamp mode:	Standard	3200 lm	4400 lm	
Contract ratio (full white / full bla	ck)*3		200		
Contrast ratio (full white / full black					
Displayable scanning	Horizontal		15 kHz to		
frequency	Vertical		48 kHz te		
	Computer signal inpu	ut	Maximum display resolu	tion: 1920 x 1200 dots *4	
Display resolution			NTSC, PAL, SECAM, 480/60i, 576/50i, 480/6	0p, 576/50p, 720/60p, 720/50p, 1080/60i,	
Display resolution	Video signal input		1080/50i The following items are available 1080	for digital signal only; 1080/60p, 1080/50p,	
Colour System			NTSC3.58, PAL, SECAM, NTS	C4.43, PAL-M, PAL-N, PAL60	
	Vertical		+/- 30 c	legrees	
Keystone correction (Max.)	Horizontal		+/- 30 0	legrees	
OSD language	24-languages		English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, S Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnan Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek		
	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- Audio input connecto	pin (single link), HDCP support r: 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)		
INPUT OUTPUT	S VIDEO IN	HDMI input connector:	Video input connector: BNC, Audio input connector: Shared with input A		
(Computer / Video /Control)	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 suppo 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: Stere	o mini jack Plug in power DC 5V	
Acoustic noise	Lamp mode:	Standard	28	, , ,	
Operating temperature / Operatin			0°C to 40°C (32°F to 104°F) / 2		
Storage temperature / Storage hu			-10°C to +60°C (14°F to +140°F) /		
storage temperature / storage fit					
Power requirements		3A to 1.8A, 50 Hz / 60 Hz	•		
	AC 100 V to 240 V, 5.0	0A to 2.1A, 50 Hz / 60 Hz		•	
	AC 100 V to 120 V	High	429 W	498 W	
Power consumption	AC 100 V to 120 V	Standard	268 W	346 W	
Lamp mode:		High	416 W	483 W	
	AC 220 V to 240 V	Standard	216 W	337 W	
<b>D</b>	AC 100 V/to 120 V	standard	210 W		
Power consumption (Standby Mode" is set to "Low")	AC 100 V to 120 V				
Mode is set to LOW j	AC 220 V to 240 V		0.5		
Power Consumption	AC 100 V to 120 V		15.0 W (LAN) / 15.0 W (HDBaseT) /15.0 W (when "Standby Mode		
(Networked Standby Mode)	rked Standby Mode) AC 220 V to 240 V		13.3 W (LAN) / 13.3 W (HDBaseT)13.3 W (All Terminals and Networks Connected) (whe "Standby Mode" is set to "Standard")		
Heat dissipation	AC 100 V to 120 V AC 220 V to 240 V		1464 BTU/h 1699 BTU/h 1419 BTU/h 1648 BTU/h		
Dimensions (W x H x D) (without p			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		
	PM DI27 Dom-t-	RM-PI27 Remote Commander (1) Size AA (PC)	patteries (2), AC Power Cord (1), Plug holder (1), Tern		
Supplied accessories		batteries (2), AC Power Cord (1), Plug holder (1), T	patteries (2), AC Power Cord (1), Plug noider (1), Ierr Ferminal, Size AA (R6) batteries (2), AC Power Cord ( anual (1), Operating Instructions (CD-ROM) (1)		

\*1 Specfications based on VPL-Z4111 (VPL-FHZ90L & VPL-FHZ120L)
 \*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.

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## F-Series Laser Projectors

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.

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

### 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<sup>™</sup> 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.

<b>F-Series</b>					<b>F-Series</b>	
Connector Panel	I Information				5	nd extension poles for and VPL-FHZ58/61/66
Rear connector pane VPL-FHZ58, VPL-FHZ6 VPL-FHZ66 & VPL-FH	61, VPL-FHZ70,					PAM-310 Ceiling mount
Rear connector pane VPL-FHZ90L and VPL projectors					Ţ	PAM-0.5M Extension pole & ceiling plate
PrimeSupport Pro	E Laser r	nodels (VPL-FHZ58, Fł		5 for further details	Ī	PAM-1.0M Extension pole & ceiling plate
Reference		Included Service				
Support	Proje			ser	T	PAM-1.5M
Duration Type of service	5 ye	ears Return to ba		) hours		Extension pole & ceiling plate
PrimeSupport Elite			See page	5 for further details	Featuring	
Reference		models (VPL-FHZ58, FI		,	arightEr	Z-Phosphor
	PSP.VPL-			Z-HB.EXC.5	3LCD	
Support Duration	Projector	Laser 12000 hours	Projector	Laser 20000 hours		
Type of service	5 years	Swap for like fo	5 years	20000 hours		
PrimeSupport Pro			See page !	5 for further details		
Reference	F lase	er high brightness (VP PS.HBF	'L-FHZ90L & VPL-FHZ 'ROJ.5	120L)		
Support	Proje	octor	دا	sor		

Reference	PS.HBPROJ.5				
Support	Projector	Laser			
Duration	5 years	20000 hours			
Type of service	Return to base for repair				

		See page 5 for further details			
PrimeSupport Elite					
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

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Specificatior	IS		VPL-FHZ58	VPL-FHZ61	VPL-FHZ70	VPL-FHZ66	VPL-FHZ7	
Display system	3LCD System		•	•	•	•	•	
Cize of offective display area	0.76" (19 mm) x 3	BrightEra LCD Panel, Aspect ratio: 16:10	•	•	•	•	•	
Size of effective display area	1" x 3 BrightEra L	CD Panel, Aspect ratio: 16:10						
lumber of pixels	6,912,000 (1920 :	x 1200 x 3) pixels	•	•	•	•	•	
	Focus				Powered			
Projection lens *1	Zoom - Powered	/Manual			Powered			
	Zoom - Ratio Throw Ratio				Approx. x 1.6 1.39:1 to 2.23:1			
	Powered/Manua	al			Powered			
Lens shift	Range Vertical		-5% / +60% *5	-5% / +60% *5	-5% / +70%	-5% / +60% *5	-5% / +70	
	Range Horizonta	ı			+/- 32%			
light source	Туре				Laser diode			
Laser life '4 Light output mode: Standard					20,000 H			
Filter cleaning / replacement cy	cle (Max.) *2				20,000 H			
Auto filter cleaning			•	• 40" to 600		•	•	
Screen size (Max)		Standard	4,200 lm	5,100 lm	' (depending on pro 5,500 lm	6,100 lm	6,500 lm	
White & Colour Light output *2	Lamp mode:	Middle	3,000 lm	3,500 lm	5,000 lm	4,000 lm	6,100 lm	
Contrast ratio (full white / full bl	ack) *3		5,000	5,500	500,000:1	1,000 111	0,100 111	
Colour calibration			•	•	•	•	•	
Displayable scanning	Horizontal				15 kHz to 92 kHz			
requency	Vertical				48 Hz to 92 Hz			
	Computer signal	input *4			splay resolution: 192			
Display resolution	Video signal inp	ut				720/60p, 720/50p, 10 VII input) only; 1080/		
			(The following		1080/24p)		,	
Colour System				NTSC3.58, PAL, SI	ECAM, NTSC4.43, PAI	L-M, PAL-N, PAL60		
Keystone correction (Max.) *1*8	Vertical				+/- 30 degrees			
	Horizontal				+/- 30 degrees			
	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		HDB			ideo, Audio, LAN, Co	ntrol)	
	INPUT E							
INPUT OUTPUT	INPUT F							
(Computer / Video /Control)	INPUT G							
	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					
						connector: Stereo mini jack		
	REMOTE				ub 9-pin (male) / RS			
	LAN IR (Control S)				5, 10BASE-T/100BAS nini jack, Plug in pov			
		English, Dutch, French, Italian, German, S	inanish Portuguese 1				ified Chinese	
OSD language	24-languages	Traditional Chinese, K					incu chinese,	
Acoustic noise	Standard		32 dB		34 dB		32 dB	
	Middle		28 dB		28 dB		28 dB	
Operating temperature / Operating humidity <sup>*5</sup>	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 (1 condensation)	4°F to +140°F) / 20% to 80% (no	•	•		•		
Power requirements				AC 10	0 V to 240 V, 50 Hz /	60 Hz		
Power consumption	AC 100 V to 120 V	1	367 W	420 W		515 W		
Lamp mode: High *5	AC 220 V to 240		352 W	408 W		497 W		
Power consumption	AC 100 V to 120 V				0.5 W			
Standby mode)	AC 220 V to 240	V	0.5 W					
Power Consumption	AC 100 V to 120 V	I	19.4 W	(All Terminals / Netv	15.0 W (LAN) 19.4 W (HDBaseT) vorks) (when "Stand	by Mode" set to "Sta	ndard")	
(Network Standby Mode) *5					13.3 W (LAN)		,	
	AC 220 V to 240	V	17.4 \\	(All Terminals / Net	17.4 W (HDBaseT)	hy Modo" cot to "Sta	odard")	
Body colour			17.4 W		vorks) (when "Stand Vhite / Black Availab	by Mode" set to "Sta Ie	nudiu )	
Dimensions (W x H x D) (withou	t protrusions)					1/32 x 20 9/32 inche	ŝ	
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						
MEAL and Back and Alexandre		and the second se						
With supplied standard lens This figure is expected maintenance The actual value depends on the env The value is average. Available for VESA Reduced Blanking To be updated for VPL-FHZ70 & VPL-I	ironment and how the signal.	me. The actual value de		ent and how the projec	tor is used.	orrect as of February 2	טוש. Subject to c	

With supplied standard lens
 This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.
 The value is average.
 Available for VESA Reduced Blanking signal.
 To be updated for VPL-FH270 & VPL-FH275
 The values are estimate.

Specification	1S (cont.)		VPL-FHZ90L	VPL-FHZ120L	
Display system	3LCD System		•	•	
Size of effective display area		BrightEra LCD Panel, Aspect ratio: 16:10	-		
Number of pixels	6,912,000 (1920 )	CD Panel, Aspect ratio: 16:10	•	•	
Number of pixels	6,912,000 (1920 ) Focus		Pow	ered	
	Zoom - Powered	/Manual	Pow		
Projection lens*1	Zoom - Ratio	/ Martual	Appro		
	Throw Batio		1:30:1 ti		
	Powered/Manua	1	Pow		
Lens shift	Range Vertical		+/-9		
	Range Horizonta	1	+/-		
Light source	Type		Laser	diode	
Laser life *4	Light output mo	de: Standard	20,0	ОО Н	
Filter cleaning / replacement cy	cle (Max.) *2		10,000 H (servic	e maintenance)	
Auto filter cleaning			•	•	
Screen size (Max)			40" to 600" (dependi	ng on projection lens)	
White 9 Colour Links output '6	Lenne meder	Standard	9,000 lm	12,000 lm	
White & Colour Light output <sup>*6</sup>	Lamp mode:	Middle	8,000 lm	10,000 lm	
Contrast ratio (full white / full bl	ack)		∞:1	∞:1	
Colour calibration			•	•	
Displayable scanning	Horizontal		15 kHz to	92 kHz	
frequency	Vertical		48 Hz ti	o 92 Hz	
	Computer signal	input *4	Maximum display resol	ution: 1920 x 1200 dots	
Display resolution	Video signal inpu	ut	480/60i, 576/50i, 480/60p, 1080/60i, 1080/50i (The following items a only; 1080/60P, 1080/50	re available for digital signal (HDMI input)	
Colour System			NTSC3.58, PAL, SECAM, NTS	C4.43, PAL-M, PAL-N, PAL60	
Keystone correction (Max.) *1*8	Vertical		+/- 30 c	legrees	
,	Horizontal		+/- 30 degrees		
	INPUT A		RGB / Y PB PR input co	nnector: 5 BNC (female)	
	INPUT B		RGB input connector: Mi	ni D-sub 15-pin (female)	
	INPUT C		DVI input connector: DVI-D 24- HDCF		
	INPUT D		HDMI input connector: HE HDCF		
	INPUT E		HDBaseT interface co	onnector: RJ45, 3 play	
INPUT OUTPUT	INPUT F		Optional adaptor slot for 3G-SDI Input Adaptor (BKM-PJ20)		
(Computer / Video /Control)	INPUT G VIDEO IN OUTPUT A OUTPUT B REMOTE LAN		USB Port: HTML Viewer Type-A x 1		
			Video input connector: BNC, Audio input connector: Shared with input A		
			Monitor output for Input A Input B Connector: Mini D-sub 15-pin (female)		
			D-sub 9-pin (male) / RS232C		
			RJ45, 10BASE-T/100BASE-TX/1000BASE-TX		
	IR (Control S)		Stereo mini jack, Plug in power DC5V		
		English, Dutch, French, Italian, German, Sp	anish, Portuguese, Turkish, Polish, Russian, Swedish	5 .	
OSD language	24-languages		rean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indon		
Acoustic noise	Lamp mode:	Standard	39 dB	42 dB	
	poue.	Middle	39 dB	39 dB	
Operating temperature / Operating humidity		to 109°F) / 20% to 80% (no condensation)	•	•	
Storage temperature / Storage humidity	-10°C to +60°C (14 condensation)	4°F to +140°F) / 20% to 80% (no	•	•	
Power requirements			AC 100 V to 240	V, 50 Hz / 60 Hz	
Power consumption	AC 100 V to 120 V	/	840 W	1076 W	
Lamp mode: High	AC 220 V to 240 V	V	814 W	1033 W	
Power consumption	AC 100 V to 120 V	1	0.50	W (	
(Standby mode)	AC 220 V to 240 V	V	0.50		
Power Consumption	AC 100 V to 120 V		21.6W (LAN) 26.5W (HDBT) 26.6W (All Terminals / Networks) (when "Standby Mode" set to "Standard")		
(Network Standby Mode)	AC 220 V to 240 V	v	21.3W (LAN) 26.5W (HDBT) 26.6W (All Terminals / Networks) (when "Standby Mode" set to "Standard")		
Body colour			White / Blac	ck Available	
Dimensions (W x H x D) (without	t protrusions)		Approx. 544 x	205 x 564 mm	
Mass			26 kg	27 kg	
Supplied accessories	Remote commar	nder	RM-	PJ30	
Optional accessories	Projection Lens		VPLL-4008, Z4111 (Standard), 2	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-PI20 Correct as of February 2019. Subject to change.

### 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



<complex-block>

### BRAVIA 4K Professional Displays

Bring the spectacular depth and quality of 4K to your business with the latest range of ultra-slim, energy efficient BRAVIA Professional Displays. 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, lecture theatres and communal areas.

#### 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.

### 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\*.

#### 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.

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

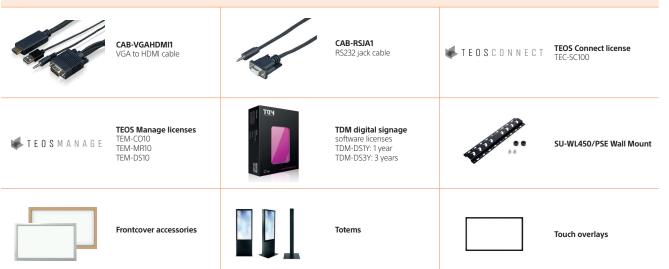
Simple, fuss-free installation and set up allows deployment of your interactive touchscreen solution in minutes.

Speci	fications	FW-43BZ35F	FW-49BZ35F	FW-55BZ35F	FW-65BZ35F	FW-75BZ35F	FW-85BZ35F
	Screen size (diagonal)	43''	49"	55''	65''	75''	85''
	Brightness (cd/m <sup>2</sup> )***	505 c			620 cc		
	Native constrast ratio	3,50	00:1		4,00	0:1	
	Dynamic contrast ratio			over 1	million		
General features	Response time (ms)	5	8		5		6
	Display resolution			4K (384	0x2160)		
	Compatible with HDR			Yes (HDI			
	Aspect ratio				:9		
	Portrait compatibility			Y.			
	Dimming type Display device			Fiame L	Dimming		
Display	Backlight type			Edge			
features	Operating system			Andro			
	Processor				(1		
	Operation time			24	/7		
	Wide Mode	Wide zoom/Normal/Full/Zoom/14:9					
	4:3 Default			Y	25		
	Video Processing			4K X-Re	ality PRO		
Video specs	Motionflow			Motionflow XR 80	OHz (Native 100Hz)		
	Triluminos			Y			
	Viewing angle (Right/Left/Up/Down)	1000 0100 /0		178 (89/8		) 700 (00 0011 ) 700 (0	
	Video Signal (HDMI)	4096x2160p(2			z), 1080/24p, 1080i(60Hz		4p, 480p, 480i
	4K 60P quality format		op to 18Gbps:4K 60p 4		t), 4:2:0(8,10bit) HDR incl Firing	uded for HDIVIT1/2/3/4	
Audio specs	Speaker position Audio Power Output			10W	-		
Addio specs	Invisible speaker				25		
	Professional Hidden Mode				25		
	HDMI auto wake-up				25		
	HTML5 platform				25		
Professional	Multicast / IPTV			Yes (UE			
features	Compatible with TDM Digital Signage			Y	25		
	Available storage			16	GB		
	Compatible TDM content	Customised de	sign, text, pictures, video	os, YouTube, traffic, weatl	ner, public information, Fa	cebook, Twitter, Powerf	oint and more.
	Wi-Fi Direct	Yes					
	Wi-Fi Certified	Yes					
Network	DLNA			Network Client /			
specs	Firmware update				ork or USB)		
	Internet Browser Wireless LAN	Yes (Opera) Integrated					
	USB HDD REC				25		
		MPEG1:MPEG1/	MPEG2PS:MPEG2/MPEG		2,AVC/MP4(XAVC EG4,HE	VC/AVI:Xvid.MotinJpea	ASF(WMV):VC1/
	USB Play (contents	MOV:AVC,MPEG4, Mo	otionJpeg/MKV:Xvid,AVC	,MPEG4,VP8.HEVC/WEB	M:VP8/3GPP:MPEG4,AVC	/MP3/ASF(WMA)/WAV	/MP4AAC/FLAC/JPEG
Convenience features	On screen clock			Y	es		
	Sleep timer				25		
	On/Off timer				2S		
	Google Cast				25		
Control	IP Control RS-232C Control				es ick 3.5)		
specs	HDMI CEC				25		
	НДСР				MI1/2/3/4)		
	Composite Video Input(s)				w/Component)		
	Component Video (Y/Pb/Pr) Input(s)			1 (Rear Hybrid			
	HDMI <sup>™</sup> Connection(s) (Total)			4(3Side	/1Rear)		
Inputs and outputs	Analog Audio Input(s) for HDMI (Total)			1(R	ear)		
	Digital Audio Output(s)				ear)		
	Audio Out				and Subwoofer Out)		
	USB				ide)		
	Ethernet Connection(s)			1 (s			
Design	Finish (Surface Colour)				ack		
features	Table Top Stand VESA® Hole Spacing Compatible	Yes (10.0x20.0 cm)	Yes (20.0x20.0 cm)	Separate (asse Yes (30.0x20.0 cm)	Yes (30.0x30.0 cm)	Yes (40.0x30.0 cm)	Yes (40.0x40.0 cm)
	Light Sensor	1es (10.0x20.0 cm)	163 (20.0x20.0 cm)		25	163 (40.0x30.0 cm)	163 (40.0x40.0 cm)
	Energy Label			1			
	Screen size (measured diagonally)						
	Power Consumption (in Standby)			0.5	D W		
Environment	Power Consumption (in Operation)	76 W	88 W	103 W	120 W	149 W	233 W
specs	Lead content			I	25		
	Mercury content (mg)			0	.0		
	Dynamic Backlight Control			Y	es		
	Power Saving Mode / Back Light Off Mode			Y	25		
	AC Power Input	AC Ac	lapter		1 (Re	ear)	

Specif	ications (cont.)	FW-43BZ35F	FW-49BZ35F	FW-55BZ35F	FW-65BZ35F	FW-75BZ35F	FW-85BZ35F		
	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		
Measurements	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		
	Display Only	10.8 Kg	13.2 Kg	19.1 Kg	25.6 Kg	38.9 Kg	44.1 Kg		
Weight	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		
	TDM Digital Signage 1-year license		TDM-DSIY						
	TDM Digital Signage 3-years license	TDM-DS3Y							
	TEOS Manage Control license	TEM-CO10							
	TEOS Manage Meeting Room license	TEM-MR10							
	TEOS Manage Signage license	TEM-DS10							
Optional	TEOS Connect Mirroring license	TEC-SC100							
accessories	10 point IR touch overlay	TO-1343-IR10	TO-1349-IR10	TO-1355-IR10	TO-1365-IR10	TO-1375-IR10	TO-1385-IR10		
	10 point Capacitive touch overlay	TO-1343-CA10	TO-1349-CA10	TO-1355-CA10	TO-1365-CA10	TO-1375-CA10	-		
	White cover	FC-1343/W	FC-1349/W	FC-1355/W	FC-1365/W	FC-1375/W	FC-1385/W		
	Wood cover	FC-1343/WO	FC-1349/WO	FC-1355/WO	FC-1365/WO	FC-1375/WO	FC-1385/WO		
	Wallmount bracket		SU-WL4	50/PSE		SU-WL450/PSE (optional)	-		
	VGA to HDMI cable			CAB-VC	GAHDMI1				
	RS232 jack cable			RS232 jack ca	ble CAB-RSJA1				

### BZ35-Series

**Optional Accessories** 



BRAVIA

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	2 years extension, total 5 years	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 visi pro.sony/professional-displays 

## Visual Imaging Cameras

Sony's professional Full HD visual imaging cameras take your communications to a new level.

#### Visual Imaging Cameras

Smooth, silent operation combined with a powerful zoom range: you'll capture every presenter and contributor in crisp, high definition with our PTZ colour cameras. The SRGs feature Sony's unique View-DR and XDNR technology, ensuring complete clarity even in very poor light. Control is easy, over standard IP networks with intuitive PC software, including the option to stream content over the internet (SRG-300SE).

### Highlights

- Powerful 30x optical zoom (SRG-300H, SRG-300SE and SRG-360SHE).
- View-DR and XDNR unique Sony technologies for clarity in poor light (SRG range).
- IP streaming stream (live or recorded) conferences, lectures and events (SRG-300SE and SRG-360SHE).









Sp	ecifications	SRG-360SHE	SRG-300SE	SRG-300H				
	Image Sensor	1/2	8" Exmor CMOS, Number of Effective Pixels: Approx. 2.1 Megap	ixels				
	Signal System	1080/59.94p,50p, 1080/59.94i,50i, 720/59.94p,50p	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 1080/59.94i, 50i, 720/59.94p, 50p, 29.97p, 25p				
	Minimum Illumination (50 IRE)	High Sensitivity Mode: 0.35lx (50IRE, F1.6, 30fps) High	Sensitivity Mode: 0.7 lux (50IRE, F1.6, 60fps) Normal Mode: 1.4lx (5	50IRE, F1.6, 30fps) Normal Mode: 2.8lx (50IRE, F1.6, 60fps)				
ŋ	S/N Ratio							
	Gain							
	Day/Night Mode		Yes					
	Shutter Speed	1/1 to 1/10000						
Camera	Exposure Control	Auto, Manual, Priority AE (Shutter, Iris), Exposure Compensation, Bright						
Car	White Balance		Auto, Indoor, Outdoor, One-push Auto, ATW, Manual					
	Zoom		Optical Zoom: 30x, Digital Zoom: 12x Auto/Manual					
	Focusing System Horizontal Viewing Angle		65° (Wide)					
	Focal Length		f = 4.3mm (Wide) to 129mm (Tele) F1.6 to 4.7					
	Minimum Object Distance		10 mm (Wide) to 1200 mm (Tele)					
	Pan/Tilt Angle	Pan: ±170° Tilt: +90°/-30°		ïlt: +90°/-20°				
	Pan/Tilt Speed (Max.)	Pan: 60°/sec Tilt: 60°/sec		ec Tilt: 90°/sec				
	Preset Position	256 (16 by Vis	ica, 256 by CGI)	16				
s	Wide-D		View-DR (59.94fps 90dB/29.97fps 130db)	۱				
ture	Noise Reduction		Yes					
Feat	Image Stabilizer		Yes					
era	Image Flip		Yes					
Camera Features	PTZ Sync	Yes	No	No				
-	PTZ Trace	Yes	No	No				
	Video Output	3G-SDI, HDMI, IP 14	3G-SDI, IP	HDMI				
	MIC Input	Mini-phone $(3.5\phi) \times 2$ (MIC/Line Selectable)	RCA x 1 (LINE), Mini-phone (3.5ø) x 1 (MIC) (selectable)	No				
9	Line Input	Mini-phone (3.5φ)×2 (MIC/Line Selectable)	RCA x 1	No				
Interface	Network Port		Yes					
Int	Camera Control Interface Camera Control IR	RJ-45 <sup>*5</sup> Yes	RJ-45, 9-Pin PHOENIX Block	RJ-45, 8-Pin DIN, 9-Pin PHOENIX Block Yes				
	Camera Control Protocol	RS-422, VISCA over IP, CGI, S700PTP	RS-422, VISCA over IP, CGI	RS-422, RS-232, VISCA over IP				
	Sync System	15 422, VISCHOVEN II, CO., 57001 11	10 422, 10 202, 100 10001 11					
	Power Requirements		INT DC 12V (DC 10.8 to 13.2V)					
	Power Consumption	25.5W	8 W					
	PoE	PoE+	No					
	Operating Temperature							
	Storage Temperature							
	Dimensions* (W x H x D)	159 x 187.5 x 200.5mm	x 163mm					
era	Mass	Approx. 2.1kg	x. 1.4kg					
General	Body Colour	White with black		2/Black				
-	Mountable Angle		<±15°					
	Ceiling Mount IR Remote Controller		Yes					
	Ventilation Mechanism		Yes Yes					
		IR Remote Commander (1) AC Power Adaptor (1) Cailing		AC Power Adaptor (1), AC Power Cable (1), IR Remote Commander				
	Supplied Accessories	Bracket (2), Wire Rope (1), HDMI Cable Retainer (1), Screw M3 x8 (9), Screw M2.6 x6 (1)	AC Power Adaptor (1), AC Power Cable (1), Ceiling Bracket (2), RS-422 Connector Plug (1), Wire Rope (1), Screw M3 x8 (9)	(1), CD-ROM (Operating Instructions) (1), Ceiling Bracket (2), RS-422 Connector Plug (1), Wire Rope (1), Screw M3 x8 (8)				
	Resolution	1920 x 1080, 1280 x 720, 960 x 540, 720 x 480	1920 x 1080, 1280 x 720, 1024 x 576, 960 x 536, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184					
0	Compression Format	H.264	H.264, JPEG	•				
IP Streaming / Video	Maximum Frame Rate		s (1920 x 1080)	*				
/ ɓu	Bitrate Compression Mode		(selectable)	-				
amir	Range of Bitrate Setting		32 Mbps	· · ·				
Stre	Adaptive Rate Control Multi Streaming Capability	No	Yes 3					
₫	Maximum Number of Clients		5					
	Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, RTP/ RTCP, RTSP, HTTPS, SNMP, VISCA over IP	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL					
~	Channel	2	1	-				
Audio	Codec	AA	C LC					
A	Audio Setting Option	Auto Gain Contro	ol (ALC), Equalizer					
~	Multicast Streaming Support	Y	/es	-				
Network	ONVIF Comformance	Ν	۹o	-				
Net	Wireless Network		No	•				
	Authentication	No	IEEE802.1X	-				
System Requirements	Operating System	Windows 7 (32/64bit), Windows 8.1 Pro (32/64bit) <sup>1</sup> , Windows 10 Pro (32/64bit) <sup>2</sup> Authorized editions: Windows 7: Ultimate, Professional, Windows 8.1: Pro, Windows 10: Pro	Microsoft Windows Vista (32bit), Windows 7 (32/64bit), Windows 8 Pro (32/64bit) <sup>3</sup> , Windows 8.1 Pro (32/64bit) <sup>3</sup> Authorized editions: Windows Vista: Ultimate, Business, Windows 7: Ultimate, Professional. Windows 8.Pro, Windows 8.1: Pro, Microsoft DirectX 9.0c or higher					
Requ	Processor	Intel Core i7, 2.8 GHz or higher. Or Intel Core i3 / Intel	I Core i5 / Intel Core i7 (with built-in Intel HD Graphics)					
em F	Memory		or more	-				
t,		Windows Internet Explorer Ver. 11.0",						

The values for dimensions are approximate.
 If you use Windows 8.1, use the Internet Explorer for the desktop user interface (desktop UI).
 If you use Windows 10, turn off the tablet mode.

\*3 In case of Windows 8 or Windows 8.1, use the Internet Explorer desktop user interface (desktop UI) edition.
\*4 With PoE+ simultaneous output is limited to 3G-SDI and single IP stream.
\*5 Cascade connection is not available.

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Sp	ecifications	SRG-120DH	SRG-120DS	SRG-120DU				
	Image Sensor		1/2.8" Exmor CMOS					
	Image Sensor		Approx. 2.1 Megapixels					
	(Number of Effective Pixels)							
	Signal System	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				
	Minimum Illumination (50 IRE)		High Sensitivity Mode: 0.4lx (50IRE, F1.8, 30fps) High Sensitivity Mode: 0.9lx (50IRE, F1.8, 60fps) Normal Mode: 1.8lx (50IRE, F1.8, 30fps) Normal Mode: 3.6lx (50IRE, F1.8, 60fps)					
	S/N Ratio	50 dB						
	Gain		Auto/Manual (0 to +43 dB)					
	Day/Night Mode		No					
ē	Shutter Speed		1/1 to 1/10000					
Camera	Exposure Control	Auto, Mar	nual, Priority AE (Shutter, Iris), Exposure Compensat	ion, Bright				
Ű	White Balance	/	Auto, Indoor, Outdoor, One-push Auto, ATW, Manua	al				
	Optical Zoom		12x					
	Digital Zoom		12x					
	Focusing System		Auto/Manual					
	Horizontal Viewing Angle		71° (Wide)					
	Focal Length		f = 3.9mm (wide) to 46.8 mm (Tele) F1.8 to 2.0					
	Minimum Object Distance		10 mm (Wide) to 1500 mm (Tele)					
	Pan/Tilt Angle		Pan: ±100° Tilt: ±25°					
	Pan/Tilt Speed (Max.)	Pan: 300°/sec Tilt: 126°/sec						
	Preset Position		16					
	Wide-D		View-DR (59.94fps 90dB/29.97fps 130db)					
Ires	Noise Reduction	Yes						
eatu	Image Stabilizer	No						
Camera Features	Image Flip	No						
ame	PTZ Sync		No					
Ű	PTZ Trace		No					
	Video Output	HDMI	3G-SDI	USB				
	MIC Input		No					
	Line Input	No						
ace	Network Port		Yes					
Interface	Camera Control Interface	8-Pin D	IN, RJ-45	8-Pin DIN, RJ-45, USB 2.0/3.0				
-	Camera Control IR		Yes					
	Camera Control Protocol	RS-232, VISCA	, VISCA over IP	RS-232, VISCA, VISCA over IP, UVC				
	Sync System		INT					
	Power Requirements	DC 12V (DC 10.8 to 13.2V)						
	Power Consumption	16.8 W						
	PoE		No					
	Operating Temperature		0 °C to 40 °C					
eral	Storage Temperature		-20 °C to 60 °C					
General	Dimensions* (W x H x D)		153 × 156 × 153 mm					
5	Mass		Approx. 1.6kg					
	Body Colour		Silver					
	Mountable Angle	< <u>+</u> 15°						
	Ceiling Mount	No						
Supp	lied Accessories	AC Power Adaptor (1), AC	Power Cable (1) IR Remote Commander (1), CD-ROM (0	Operating Instructions) (1)				
Can b video	e used for applications such as collaboration client software via & UVC control	-	-	Skype, Skype for Business, Hangout, WebEx, other similar applications**				

PrimeSupport Pro			2	See page 5 for further details		See page 5 for further details PrimeSupport Elite			
Reference	Included service PS.VIDEOCONF.3	PSP. SDCAMERA.4	PSP. SDCAMERA.5	PSP. HDCAMERA.4	PSP. HDCAMERA.5	Reference	PSP. HDCAMERA. RL3	PSP. HDCAMERA. RL4	PSP. HDCAMERA. RL5
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	Duration	3 years repair & loan	4 years repair & loan	5 years repair & loan

SRG Series

**Optional Accessories** 



PCS-A1 Omnidirectional Microphone

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



# **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.









Sp	pecifications	BRC-X1000 (4K)	BRC-H900 (HD)	BRC-H800 (HD)
	Image sensor	1.0-type Exmor R CMOS	1/2-type Exmor CMOS x3	1.0-type Exmor R CMOS
	Signal System	2160/29.97p, 25p, 23.98p, 1080/59.94p, 50p, 59.94i, 50i, 720/59.94p, 50p, 2160/23.98p, 1080/23.98p	1080/59.94i, 50i, 720/59.94p, 50p, NTSC, PAL	1080/59.94p, 50p, 59.94i, 50i, 720/59.94p, 50p, 1080/23.98p
	4K Video Output	Dual link 3G-SDIx2, HDMI	_	_
	HD Video Output	3G-SDIx4, HDMI	HD-SDI, Component (Y/Pb/Pr) or RGB	3G-SDIx2, HDMI
	SD Video Output	_	SD-SDI, Composite, Y/C	-
	Minimum Illumination	1.7 lux (50IRE, F2.8, 1/30s, Max Gain)	4 lux (50IRE, F1.9, Max Gain)	1.7 lux (50IRE, F2.8, 1/30s, Max Gain)
	Optical Zoom	12x	14x	12x
Camera	Clear Image Zoom	24x (HD), 18x (4K)	_	24x
Can	Tele Convert Mode	Off, 2x, *1920x1080 only	_	Off, 2x, *1920x1080 only
	Horizontal Viewing Angle	64.6 degree (Wide)	59.6 degree (Wide)	64.6 degree (Wide)
	Preset positions	100	16	100
	Serial Control	RS-422	RS-422, RS-232C	RS-422
	IP Control	Yes	Yes (Option)*	Yes
	ND filter	Yes	No	Yes
	External sync	Yes	Yes	Yes
	Paint control from RCP	Yes	Yes (Option)*	Yes
	Power	DC10.8V to 13.2V, PoE+	DC10.8V to 13.2V	DC10.8V to 13.2V, PoE+

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

## UMC-S3CA

With an ultra-high sensitivity of ISO 409600\* and internal recording, this compact 4K video camera is ideal for a wide range of remote shooting applications in almost total darkness.

### Crisp, clear 4K video and still images, even in near darkness

With an ultra-high sensitivity of ISO 409600\*, the UMC-S3CA captures crisp, clear 4K/29.97P/25P colour video and low-noise 12 megapixel still images in minimum illumination conditions of 0.004 lx. The 35 mm full-frame Exmor™ sensor captures significantly more incident light than conventional cameras, while the image processing extremely enhances the high sensitivity with very low noise. Area-specific noise reduction selectively divides the image into areas based on patterns (such as edges, textures and evenly coloured areas like blue skies) to efficiently reduce noise and improve image quality.

This lens is optional

Detail reproduction technology helps to accurately depict details with a more natural sense of dimension.

\* Standard ISO 100–102400, expandable to 50–409600



### 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** 

PrimeSupport	PrimeSupport	PrimeSupport	PrimeSupport	See page 5 fo
Pro	Elite	On-Demand	Bespoke	further detail

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ls

## 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
- 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.

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## VPL-GTZ240

Combining 4K SXRD imagery and Z-Phosphor<sup>™</sup> 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.LASPROJPJD.3		
Support	Projector	Optical Block & Laser	
Duration	3 years	7000h	

PrimeSupport Elite				See page 5 for further details
Reference	PSP.VPLGT	Z2.PREM.5	PSP.VPLG	TZ240.2X
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

Featuring



pro.sony/simulation-projectors





Specificatio	ons		VPL-GTZ280	VPL-GTZ270	VPL-GTZ240	
Display system			4K SXF	RD panel, projection sy	rstem	
Size of effective display area	1			0.74″ x 3		
Number of pixels			26,542,080 (4096 x 2160 x 3) pixels			
Projection lens*2	Focus			Powered		
rojection lens	Zoom			Powered		
Light source	1			Laser diode		
Light output	Standard		2,000 lm	5,000 lm	2,000 lm	
	-	I1 optional upgrade	5,000 lm	-	-	
Colour light output	Standard	M	2,000 lm	5,000 lm	2,000 lm	
	using the LSM-BRIN	I1 optional upgrade	5,000 lm	-	-	
Contrast ratio	Native (conditions a	apply)	Up to 20,000:1*1 (native contrast)	Up to 20,000:1*1	16,000:1*1	
	Dynamic		00	00	00	
	1280x720/60p, 1920x 3840x2160/60p, 3840	GA (1280x768), Quad-VGA, SXGA, 720x480/60p, 720x576/50p, 1280x720/50p, 1080/24p, 1920x1080/50p, 1920x1080/60p, 3840x2160/24p, 3840x2160/50p, 1x2160/100P, 3840x2160/120P, 4096x2160/24p, 4096x2160/50p, 5x2160/100P, 4096x2160/120P	•	•		
Accepted digital signals <sup>-3</sup>	1280x720/60p, 1920x 1920x1080/60p, 3840	GA (1280x768), Quad-VGA, SXGA, 720x480/60p, 720x576/50p, 1280x720/50p, 1080/50i*4, 1920x1080/60i*4, 1920x1080/24p, 1920x1080/50p, 1x2160/24p,3840x2160/25p*4, 3840x2160/30p*4, 3840x2160/50p, 5x2160/24p, 4096x2160/25p*4, 4096x2160/30p*4, 4096x2160/50p,	•	•		
Accepted signals	2160/24p, 3840 x 216	20/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p, 3840 x 0/25p,3840 x 2160/30p, 3840 x 2160/50p, 3840 x2160/60p, 4096 x 2160/24p, 6 x 2160/30p, 4096 x 2160/50p, 4096 x 2160/60p			•	
Colour bit depth			Up to 10 bit	Up to 12 bit via HDMI / Up to 10 bit via Display Port	Up to 12 bit	
OSD language	18-languages English, Dutch, French, Italian, German, Spanish, Portu Japanese, Simplified Chinese, Traditional C					
	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)	•			
		2 inputs (HDCP 1.3 x 1, HDCP 1.3 for V Split x 1), Digital (RGB)				
INPUT OUTPUT	TRIGGER		2 connecto	rs, Mini jack, DC 12V M	ax.100 mA	
(Computer/Video/	ROMOTE	RS-232C, D-sub 9-pin (female)	•	•		
Control)		RS-232C, D-sub 9-pin (male)			•	
	LAN		RJ4	5, 10BASE-T/100BASE-	TX	
	IR IN / OUT		IN:1, Out:1, Mini jack			
	SYNC			IN:1, Out:1		
·	USB		20.10	Type A	39 dB	
Acoustic noise Operating temperature /	Standard 5°C to 40°C (41°F to	+104°F)/20% to 80% (no condensation)	30 dB ~		• 39 UB	
Operating humidity Storage temperature /		0 +140°F)/20% to 80% (no condensation)	•	•		
Storage humidity Power requirements	AC 220 V to 240 V, 6	6 A, 50/60 Hz (For Europe and China)	•	•		
Power consumption: High	AC 100 V to 240 V, 1	2 A to 6 A, 50/60 Hz (For the other countries)	-	MAX. 1.2 kW		
Power consumption. Fight	w mode When "Remo	ste Start" is set to "Off")		0.4 W		
		· · · · · · · · · · · · · · · · · · ·		0.4 W		
Power Consumption (Networked Standby Mode, When "Remote Start" is set to "On") Heat dissipation			4092 BTU/h	4092 BTU/h	1671 BTU/h	
Dimensions (W x H x D) 550 x 228 x 750 mm (21 21/32 x 8 31/32 x 29 17/32 in)		•	•			
(without protrusions)		n (22 1/16 x 8 25/32 x 19 17/32 in)			•	
		n (21 21/32 x 10 5/16 x 29 17/32 in)	•	•		
Dimensions (W x H x D)	560 x 230 x 496 mm				•	
Mass		· · ·	Approx. 40 kg / 88 Ib (excluding lens)	Approx. 40 kg / 88 lb (excluding lens)	19.5 kg / 43 lb (without lens)	
Supplied accessories	DNA DIDO D	te Commander (1), Size AA (R6), Manganese Batteries (2), AC Power Cord (1),	Operating Instructions			

\*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 cinemalike 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	
	Focus	Powered (Approx. x 1.02)	
Projection lens	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: Hig	gh)	2500 lm	
Colour light output (Lamp mo	de: 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	
	HDMI (HDCP 2.2)	HDMI (x4)	
INPUT OUTPUT	REMOTE	RS-232C, D-sub 9-pin	
(Computer / Video /	LAN	RJ-45, 10Base-T/100BASE-TX	
Control)	IR IN	Mini Jack	
USB		Type A, DC 5V, Max. 500 mA	
Operating temperature (Oper	ating 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.LASPROJPJD.3		
Support	Projector	Optical Block & Laser	
Duration	3 years	7000h	

PrimeSupport Elite		See page 5 for further details
Reference	PSP.VPLV	Z1000.2X
Support	Projector	Optical Block & Laser
Duration	2 years extension, total 5 years	12000h
Featuring		For full product specifications and features please visit
HE		pro.sony/simulation-projectors





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