SONY

Corporate & education solutions range guide

January 2016

www.pro.sony.eu

The Sony Solution

When it comes to professional AV technology, Sony provides more than just products – we create solutions.

Solutions that empower all kinds of organisations, with advanced audio-visual tools that help them go further. Solutions designed for every industry and sector, from schools to universities, small business to big business, retail to medical and more.

Solutions like our Laser Light Source Projectors, delivering powerful images, virtually maintenance-free, to universities across Europe. Vision Presenter, taking audience engagement to new levels. BRAVIA Professional displays enabling dynamic, digital signage. Desktop and portable projectors providing uncompromised quality at a low TCO to business and education.

Whatever size the organisation, whatever the requirement, we have the perfect solution. And always with our full support.

For full product features and specifications please visit **pro.sony.eu**

PrimeSupport

To keep you up and running, the majority of our products come with a 3 year PrimeSupport package as standard. Offering unique services and benefits, our package provides over and above a standard warranty.
See page 59 for more details or visit pro.sony.eu/PrimeSupport

Captivating, bright presentations for every size room

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
Including the world's first and brightest 3LCD Laser Projectors

For large venues, our groundbreaking Laser Light Source projectors offer unprecedented durability of up to 20,000 hours, enduring brightness and virtually no maintenance. The range includes the world's brightest 3LCD Laser projector, the VPL-FHZ700L. Our installation lamp projectors feature the same 3LCD BrightEra™ technology for a brighter picture with greater stability and colour consistency, plus easy HDBaseT™ connectivity*.

Highlights

• Powerful, WUXGA & WXGA
  resolution images,

• Models range from 4,000 to 7,000
  lumens brightness

• 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 easy-to-use, combining outstanding performance with cost-efficiency. Wireless connectivity enables presentation direct from PC, Mac, smartphone or tablet, and greater opportunities for audience sharing and interaction. 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™ technology

• Smart ECO features

• Long lamp life

• Options with XGA or WXGA resolution

• Models range from 2,600 to 4,200
  lumens brightness

*VPL-CH355 and VPL-CH375 only

D-Series

6 compact and lightweight economical desktop projectors for office and classroom, offering high performance, network / wireless presentation and superior ease of use.

Wireless or Network Presentation
- Presentations can be projected from any PC, Mac or tablet on the network.
- Projector Station for Network Presentations provided.
- For tablet/smartphone, an application is available for download.

USB display
- Display pictures and audio with one USB cable.
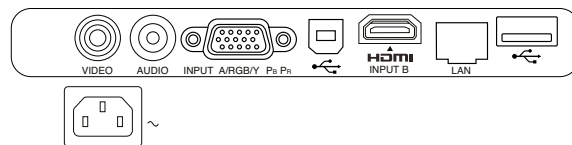- A convenient way when you want to connect easily and quickly.

Off and Go
- Switch off and unplug at the end of your presentation, then move on to your next meeting while the projector is still cooling down without damage to the lamp.

Rear connector panel for VPL-DX122, VPL-DX142 and VPL-DW122 projectors

VIDEO — AUDIO — INPUT A/RGB/Y P_B P_R INPUT B
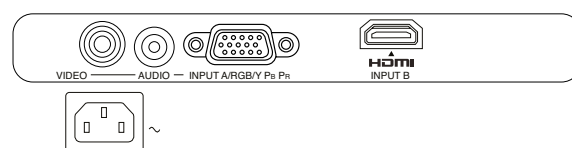
Rear connector panel for VPL-DX127, VPL-DX147 and VPL-DW127 projectors

VIDEO   AUDIO   INPUT A/RGB/Y P_B P_R INPUT B   LAN

3LCD

BrightEra™
Long Lasting Optics

D-Series	Service and Support			
PrimeSupport 2 Years / 1 Year Lamp or 1000 Hours	**PrimeSupport⁺**	**PS.VPL.DSERIES.1Y** 1 Year Extension D Series Total: 3 Years	**PS.VPL.DSERIES.3Y** 3 Years Extension D Series Total: 5 Years	**PS.LMP.DSERIES.2Y** 2 Years Extension for D Series lamp Total: 3 years

D-Series	Optional Accessories				
LMP-D213 Replacement projector lamp	**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	**Oi/Android APP** Connect your devices to projectors via a WiFi network with the VueMagic™ app

		VPL-DX122	VPL-DX127	VPL-DX142	VPL-DX147	VPL-DW122	VPL-DW127
Display system		3 LCD system					
Display device	Size of effective display area	0.63" (16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3				0.59" (15 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10	
	Number of pixels	2,359,296 (1024x768 x 3) pixels				3,072,000 (1280x800 x 3) pixels	
Projection lens	Focus	Manual					
	Zoom - Powered/Manual	Manual					
	Zoom - Ratio	Approx. x 1.2		Approx. x 1.3			
	Throw Ratio	1.47:1 to 1.77:1		1.37:1 to 1.80:1		1.36:1 to 1.77:1	
Light source	Type / Wattage	Ultra high pressure mercury lamp / 210 W type					
Recommended lamp replacement time*1	Lamp mode: High	3000 H					
	Lamp mode: Standard	5000 H					
	Lamp mode: Low	10000 H					
Filter cleaning / replacement cycle (Max.)*1		1000 H (Cleaning)					
Screen size		30" to 300" (0.76 m to 7.62 m) (measured diagonally)					
Light output	Lamp mode: High	2600 lm		3200 lm		2600 lm	
	Lamp mode: Standard	1900 lm		2300 lm		1900 lm	
	Lamp mode: Low	1700 lm		2000 lm		1500 lm	
Colour light output	Lamp mode: High	2600 lm		3200 lm		2600 lm	
	Lamp mode: Standard	1900 lm		2300 lm		1900 lm	
	Lamp mode: Low	1700 lm		2000 lm		1500 lm	
Contrast ratio (full white / full black)*2		3000:1					
Speaker		1 W x 1 (monaural)					
Displayable scanning frequency	Horizontal	19 kHz to 92 kHz					
	Vertical	48 Hz to 92 Hz					
Display resolution	Computer signal input	Maximum display resolution: UXGA 1600 x 1200 dots*3					
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i. The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p					
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N					
Keystone correction (Max.) - Vertical		+/- 30 degrees					
OSD language		23-languages *4	24-languages *5	23-languages *4	24-languages *5	23-languages *4	24-languages *5
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15 pin female, Audio input connector: Stereo mini jack (shared with VIDEO IN)					
	INPUT B	HDMI input connector: HDMI 19-pin, HDCP support					
	VIDEO IN	Video input connector: Pin jack, Audio input connector: Shared with INPUT A					
	LAN	-	RJ-45, 10BASE-T/100BASE-TX	-	RJ-45, 10BASE-T/100BASE-TX	-	RJ-45, 10BASE-T/100BASE-TX
	USB	-	Type-A, Type-B	-	Type-A, Type-B	-	Type-A, Type-B
Acoustic noise	Lamp mode: Low	< 35 dB					
Operating temperature / Operating humidity		0°C to 35°C (32°F to 95°F) / 20% to 80% (no condensation)					
Storage temperature / Storage humidity		-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)					
Power requirements		AC 100 V to 240 V, 2.9 A to 1.2 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 3.0 A to 1.2 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 2.9 A to 1.2 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 3.0 A to 1.2 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 2.9 A to 1.2 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 3.0 A to 1.2 A, 50 Hz / 60 Hz
Power consumption	AC 100 V to 120 V	Lamp mode: High: 289 W	Lamp mode: High: 297 W	Lamp mode: High: 290 W	Lamp mode: High: 298 W	Lamp mode: High: 288 W	Lamp mode: High 301 W
	AC 220 V to 240 V	Lamp mode: High: 278 W	Lamp mode: High: 285 W	Lamp mode: High: 277 W	Lamp mode: High: 286 W	Lamp mode: High: 275 W	Lamp mode: High: 287 W
Power Consumption (Standby Mode)	AC 100 V to 120 V	0.5 W (when "Standby mode" is set to "Low")					
	AC 220 V to 240 V	0.5 W (when "Standby mode" is set to "Low")					
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	-	5.3 W (LAN), 5.9 W (optional WLAN module), 6.1 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	-	5.3 W (LAN), 5.9 W (optional WLAN module), 6.1 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	-	5.3 W (LAN), 5.9 W (WLAN), 6.1 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
	AC 220 V to 240 V	-	5.3 W (LAN), 5.9 W (optional WLAN module), 6.1 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	-	5.3 W (LAN), 5.9 W (optional WLAN module), 6.1 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	-	5.3 W (LAN), 5.9 W (WLAN), 6.1 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
Standby Mode / Networked Standby Mode Activated		-	After about 10 Minutes	-	After about 10 Minutes	-	After about 10 Minutes
Wireless Network(s) On/Off Switch		-	1) Press the MENU button, then select [Connection/Power] 2) [WLAN Settings] 3) [WLAN Connection] 4) Select On or Off	-	1) Press the MENU button, then select [Connection/Power] 2) [WLAN Settings] 3) [WLAN Connection] 4) Select On or Off	-	1) Press the MENU button, then select [Connection/Power] 2) [WLAN Settings] 3) [WLAN Connection] 4) Select On or Off
Heat dissipation	AC 100 V to 120 V	985 BTU/h	1011 BTU/h	987 BTU/h	1014 BTU/h	980 BTU/h	1024 BTU/h
	AC 220 V to 240 V	946 BTU/h	970 BTU/h	943 BTU/h	973 BTU/h	936 BTU/h	977 BTU/h
Dimensions (W x H x D) (without protrusions)		Approx. 315 x 75 x 230.5 mm (12 13/32 X 2 15/16 X 9 1/16 inches)					
Mass		Approx. 2.5 kg (5.5 lb)	Approx. 2.6 kg (5.5 lb)	Approx. 2.5 kg (5.5 lb)	Approx. 2.6 kg (5.8 lb)	Approx. 2.5 kg (5.5 lb)	Approx. 2.6 kg (5.8 lb)
Supplied accessories		Remote commander (RM-PJ8)	Remote commander (RM-PJ8), Wireless LAN Module (IFU-WLM3)	Remote commander (RM-PJ8)	Remote commander (RM-PJ8), Wireless LAN Module (IFU-WLM3)	Remote commander (RM-PJ8)	Remote commander (RM-PJ8), Wireless LAN Module (IFU-WLM3)
Optional Accessories		Optional Lamp (LMP-D213)	Optional Lamp (LMP-D213), Wireless LAN Module (IFU-WLM3)	Optional Lamp (LMP-D213)	Optional Lamp (LMP-D213), Wireless LAN Module (IFU-WLM3)	Optional Lamp (LMP-D213)	Optional Lamp (LMP-D213), Wireless LAN Module (IFU-WLM3)

*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 value is average. | *3 Available for VESA Reduced Blanking signal.

| *4 English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungarian.

| *5 English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian.

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

E-200 Series

4 models that bring learning to life. Bright, energy-efficient, portable projectors designed for education.

Advanced energy-saving features
- Advanced lamp technology enables robust energy-saving features. Auto Light Dimming mode, 3 Brightness mode and Auto Lamp Mode.
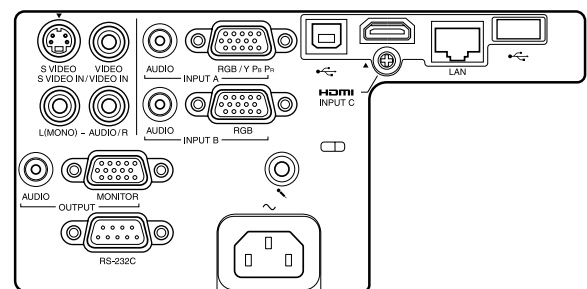
ECO PIC Mute (Blanking)
- Reduce power consumption / brightness when not in use.
- One button operation.

Contrast Enhancer
- On Screen Input Menu can be customised. This gives users a clear understanding of which equipment is connected.

Rear connector panel for the VPL-EW235, VPL-EX235, VPL-EW255 and VPL-EX255 projectors

S VIDEO / S VIDEO IN
VIDEO / VIDEO IN
AUDIO
INPUT A
RGB / Y P_B P_R
LAN
L(MONO) – AUDIO / R
AUDIO
INPUT B
RGB
HDMI INPUT C
AUDIO
OUTPUT
MONITOR
RS-232C

3LCD

BrightEra™
Long Lasting Optics

E-200 Series	Service and Support

PrimeSupport
3 Years / 3 Year Lamp or 3000 Hours

PrimeSupport+

PS.VPL.SESERIES.2Y
2 Years Extension E Series Total: 5 Years

PS.VPL.SESERIES.3YL
3 Year warranty with loan unit for E Series

PS.LMP.SESERIES.5YL
5 Year warranty with loan unit for E Series

E-200 Series	Optional Accessories

LMP-E212
Replacement projector lamp

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

Oi/Android APP
Connect your devices to projectors via a WiFi network with the VueMagic™ app

VPL-EBag
Safely transport your projector

		VPL-EW235	VPL-EW255	VPL-EX235	VPL-EX255
Display system		3 LCD system			
Display device	Size of effective display area	0.59" (15 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10		0.63"(16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3	
	Number of pixels	3,072,000 (1280x800 x 3) pixels		2,359,296 (1024x768 x 3) pixels	
Projection lens	Focus	Manual			
	Zoom - Powered/Manual	Manual			
	Zoom - Ratio	Approx. x 1.3	Approx. x 1.6	Approx. x 1.3	Approx. x 1.6
	Throw Ratio	1.37:1 to 1.80:1	1.40:1 to 2.27:1	1.37:1 to 1.80:1	1.40:1 to 2.27:1
Light source	Type / Wattage	Ultra high pressure mercury lamp / 210 W type			
Recommended lamp replacement time*1	Lamp mode: High	4000 H	4000 H	3000 H	
	Lamp mode: Standard	6000 H	6000 H	5000 H	
	Lamp mode: Low	10000 H	10000 H	10000 H	
Filter cleaning / replacement cycle (Max.)*1		7000 H (cleaning)			
Screen size		30" to 300" (0.76 m to 7.62 m) (measured diagonally)			
Light output	Lamp mode: High	2700 lm	3200 lm	2800 lm	3300 lm
	Lamp mode: Standard	1900 lm	2000 lm	2100 lm	2200 lm
	Lamp mode: Low	1500 lm	1600 lm	1600 lm	1700 lm
Colour light output	Lamp mode: High	2700 lm	3200 lm	2800 lm	3300 lm
	Lamp mode: Standard	1900 lm	2000 lm	2100 lm	2200 lm
	Lamp mode: Low	1500 lm	1600 lm	1600 lm	1700 lm
Contrast ratio (full white / full black)*2		2700:1		3300:1	
Speaker		16 W x 1 (monaural)			
Displayable scanning frequency	Horizontal	14 kHz to 93 kHz			
	Vertical	47 Hz to 93 Hz			
Display resolution	Computer signal input	Maximum display resolution: UXGA 1600 x 1200 dots*3			
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, The following items are available for digital signal (HDMI input) only; 1080/60p, 1080/50p			
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N			
Keystone correction (Max.) - Vertical		+/-20 degrees		+/-30 degrees	
OSD language		24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)			
INPUT OUTPUT (Compute r/ Video / Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack			
	INPUT B	RGB input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack			
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support			
	S VIDEO IN	S video input connector: Mini DIN 4-pin, Audio input connector: Pin jack (x2) (shared with VIDEO IN)			
	VIDEO IN	Video input connector: Pin jack, Audio input connector: Pin jack (x2) (shared with S VIDEO IN)			
	OUTPUT	Monitor output connector*4: Mini D-sub 15-pin (female) Audio output connector*5: Stereo mini jack (variable out)			
	REMOTE	RS-232C connector: D-sub 9-pin (male)			
	LAN	RJ-45, 10BASE-T/100BASE-TX			
	USB	Type-A, Type-B			
	MICROPHONE IN	Microphone jack: Mini Jack			
Acoustic noise	Lamp mode: High / Standard / Low	38 dB / 36 dB / 30 dB			
Operating temperature / Operating humidity		0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)			
Storage temperature / Storage humidity		-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)			
Power requirements		AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz / 60 Hz			
Power consumption	AC 100 V to 120 V	Lamp mode: High: 289 W	Lamp mode: High: 314 W	Lamp mode: High: 310 W	Lamp mode: High: 314 W
	AC 220 V to 240 V	Lamp mode: High: 278 W	Lamp mode: High: 301 W Lamp mode: Low: 219 W	Lamp mode: High: 299 W	Lamp mode: High: 301 W
Power Consumption (Standby Mode)	AC 100 V to 120 V	0.5 W (when "Standby mode" is set to "Low")			
	AC 220 V to 240 V	0.5 W (when "Standby mode" is set to "Low")			
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	5.0 W (LAN) 5.6 W (optional WLAN module) 5.8 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")			
	AC 220 V to 240 V	5.3 W (LAN) 5.9 W (optional WLAN module) 6.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")			
Standby Mode / Networked Standby Mode Activated		After about 10 Minutes			
Wireless Network(s) On/Off Switch		1) Press the MENU button, then select [Connection/Power], 2) [WLAN Settings], 3) [WLAN Connection], 4) Select On or Off			
Heat dissipation	AC 100 V to 120 V	986 BTU/h	1071 BTU/h	1013 BTU/h	1071 BTU/h
	AC 220 V to 240 V	949 BTU/h	1027 BTU/h	976 BTU/h	1027 BTU/h
Dimensions (W x H x D) (without protrusions)		Approx. 365 x 96.2 x 252 mm (14 3/8 X 3 25/32 X 9 29/32 inches)			
Mass		Approx. 3.9 kg (8 lb)		Approx. 3.9 kg (8 lb)	Approx. 4 kg (8 lb)
Supplied accessories		Remote commander (RM-PJ8)			
Optional Accessories		Optional Lamp (LMP-E212), Wireless LAN module (IFU-WLM3)			

*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 value is average. | *3 Available for VESA Reduced Blanking signal. | *4 From INPUT A and INPUT B. | *5 Works as an audio switcher function. Output from a selected channel; not available in standby.

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

E-300 Series

5 models that bring content to life. Bright, portable and energy-efficient; they're a perfect partner throughout busy presentation schedules.

Advanced energy-saving features
- Advanced lamp technology enables robust energy-saving features. Auto Light Dimming mode, Auto Lamp Mode and long lasting lamp-life up to 10,000 hours*
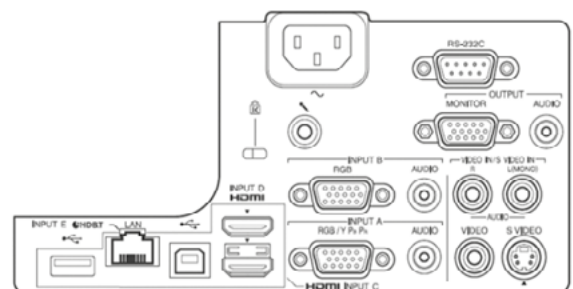
BrightEra 3LCD projection
- Clear, high contrast pictures in virtually any light conditions with 3,800 - 4,200 lumens of colour brightness.

Simple installation with HDBaseT**
- Simpler, more cost-effective installation and connectivity over a single Ethernet cable.

Rear connector panel for the VPL-EX315, VPL-EX345, VPL-EW315, VPL-EW345 and VPL-EW348 projectors

*with brightness in low mode
**VPL-EW348 only

E-300 Series	Service and Support		

3 Years / 3 Year Lamp or 3000 Hours

PS.VPL.SESERIES.2Y
2 Years Extension E Series Total: 5 Years

PS.VPL.SESERIES.3YL
3 Year warranty with loan unit for E Series

PS.LMP.SESERIES.5YL
5 Year warranty with loan unit for E Series

E-300 Series	Optional Accessories

IFU-WLM3
USB wireless module

LMP-E221
Replacement Projector Lamp

PAM-210
Ceiling mount

PAM-0.5M
Extension Poles

PAM-1.0M
Extension Poles

PAM-1.5M
Extension Poles

		VPL-EX315	VPL-EX345	VPL-EW315	VPL-EW345	VPL-EW348
Display system		3 LCD system				
Display device	Size of effective display area	0.63"(16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3		0.75"(19mm) x 3 BrightEra LCD Panel Aspect0.75"(19mm) x 3 BrightEra LCD Panel Aspect ratio 16:10 ratio 16:10		
	Number of pixels	2,359,296 (1024x768 x 3) pixels		3,072,000 (1280x800 x 3) pixels		
Projection lens	Zoom (Manual)	X1.6				
	Focus	Manual				
	Digital Zoom	X4				
	Throw Ratio	1.40 to 2.27:1		1.10 to 1.79:1		
	Light source	Ultra high pressure mercury lamp				
	Lamp Wattage	225W				
	Recommended lamp replacement time	4000 H / 6000 H / 10000 H (Lamp mode: High / Standard / Low)				
	Filter cleaning cycle	Max: 10000H (Same time as the lamp replacement is recommended)				
	Screen size	30" to 300" (0.76 m to 7.62 m)				
	Light output (Lamp mode: High /Standard / Low)	3800 / 3000 / 2500 lm	4200 / 3200 / 2500 lm	3800 / 3000 / 2500 lm	4200 / 3200 / 2500 lm	
	Color light output (Lamp mode: High /Standard / Low)	3800 / 3000 / 2500 lm	4200 / 3200 / 2500 lm	3800 / 3000 / 2500 lm	4200 / 3200 / 2500 lm	
	Contrast ratio (full white / full black)	3300:1		3700:1		
	Speaker	16W x1 (monaural)				
Displayable scanning frequency	Horizontal	15 kHz to 92 kHz				
	Vertical	48 Hz to 92 Hz				
Display resolution	Computer signal input	Maximum display resolution: 1920 x 1200 dots fV:60Hz				
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p, 3840 x 2160/24p, 3840 x 2160/25p, 3840 x 2160/30p, 4096 x 2160/24p				
	Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60				
	Keystone correction	Vertical: Max.'+/-30 degrees		Vertical: Max.'+/-20 degrees		
	OSD language	27 Languages (English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic ,Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Gleek, Czech, Slovakia, Romania)				
Computer and video signal input/output	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15 pin female, Audio input connector: Stereo mini jack				
	INPUT B	RGB input connector: Mini D-sub 15 pin female, Audio input connector: Stereo mini jack				
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support, Audio input connector: HDMI audio support				
	INPUT D	HDMI input connector: HDMI 19-pin, HDCP support, Audio input connector: HDMI audio support				
	VIDEO IN	Video input connector: Phono jack				
	S VIDEO IN	S Video input connector: Mini DIN 4-pin				
	MONITOR OUT	Mini D-sub 15 pin female				
	AUDIO OUT	Stereo mini				
	REMOTE	RS232C connector: D-sub 9-pin (male)				
	LAN	RJ-45, 10BASE-T/100BASE-TX				RJ45,100BASE-TX (Shared with HDBaseT)
	USB	Type A, Type B				
	Microphone	Microphone input: mini jack				
Acoustic Noise		29dB Lamp Mode (low)				
Operating temperature (Operating humidity)		0°C to 40°C (32°F to 104°F)/20-80% (no condensation)				
Storage temperature (Storage humidity)		10 °C to +60°C (-4°F to +140°F) / 20% to 80% (no condensation)				
Power requirements (Approx)		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	AC 100 V to 240 V, 3.1 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	AC 100 V to 240 V, 3.5 A to 1.4 A, 50 Hz / 60 Hz
Power consumption (High /Standard / Low)	AC 100 V to 120 V	314W / 261W / 233W	336W / 270W / 233W	310W / 259W / 230W	334W /271W / 233W	341W / 277W / 240W
	AC 120 V to 240 V	304W / 254W / 227W	324W / 262W / 227W	300W / 252W / 226W	322W / 263W / 227W	329W / 269W / 234W
Standby mode power consumption	AC 100 V to 120 V	0.5W (Standby Mode: Standard / Low)				
	AC 220 V to 240 V					
Standby mode / Network Standby Mode Activated	AC 100 V to 120 V	5.3 W (LAN), 5.7 W (optional WLAN module) 6.0 W (All Terminals and Networks Connected) When "Standby Mode" is set to Standard				
	AC 220 V to 240 V	5.5 W (LAN), 6.0 W (optional WLAN module) 6.3 W (All Terminals and Networks Connected) When "Standby Mode" is set to Standard				
Heat dissipation	AC 100 V to 120 V	1071 BTU	1146 BTU	1058 BTU	1139 BTU	1163 BTU
	AC 220 V to 240 V	1037 BTU	1105 BTU	1023 BTU	1099 BTU	1122 BTU
Standard outside dimensions (Approx)		365 x105.3 x 259mm (With Protrusion) 365 x 96.2 x 252 mm (Without protrusion)		365 x105.3 x 267.7mm (With Protrusion) 365 x 96.2 x 252 mm (Without protrusion)		
Mass (Approx)		4 kg (8 lb 13 oz)		4.1kg (9 lb 1 oz)		
Supplied Accessories		Remote Commander (1), CR2025, Lithium Battery (1), HD15pin cable (1), Operating Instructions CD-ROM (1), AC Power Cord, WEEE, EU Battery Info, Service Documentation, Quick Reference Manual (1) Safety Regulation, Application Software (CD-ROM)				
Optional Accessories		IFU-WLM3 USB wireless module, LMP-E221 Optional Lamp, PAM-210 Ceiling mount, PAM-0.5M Extension Pole, PAM-1.0M Extension Pole, PAM-1.5M Extension Pole				

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

Short Throw Series

4 short throw projectors that create an 80-inch image from only 75-79cm away with less glare or shadow during presentations. Energy-efficient, wireless-ready with Eco-friendly capabilities.

Short throw distance
• Produces a 2.03m (80-inch) diagonal screen size image from only 75cm (29-inch) or 79cm (31-inch) away from the screen.
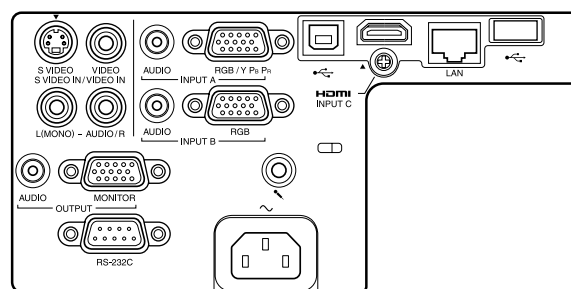
USB Media viewer
• Insert a USB drive to effortlessly display photos, images and graphics with no PC needed.

Networked control
• Projector functions and status can be managed and monitored remotely from any user's PC on the network. "Projector Station for Network Control" is provided.

Rear connector panel for the VPL-SW225, VPL-SW235, VPL-SX226 and VPL-SX236 projectors

S-Series	Service and Support		

3 Years / 3 Year Lamp or 3000 Hours

PS.VPL.SESERIES.2Y
2 Years Extension S Series Total: 5 Years

PS.VPL.SESERIES.3YL
3 Year warranty with loan unit for S Series

PS.LMP.SESERIES.5YL
5 Year warranty with loan unit for S Series

S-Series	Optional Accessories

LMP-E212
Replacement projector lamp

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

Oi/Android APP
Connect your devices to projectors via a WiFi network with the VueMagic™ app

		VPL-SW225	VPL-SW235	VPL-SX226	VPL-SX236
Display system		3 LCD system			
Display device	Size of effective display area	0.59" (15 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10		0.63" (16 mm) x 3 BrightEra, Aspect ratio: 4:3	
	Number of pixels	3,072,000 (1280 x 800 x 3) pixels		2,359,296 (1024 x 768 x 3) pixels	
Projection lens	Focus	Manual			
	Throw Ratio	0.46:1		0.46:1	
Light source	Type / Wattage	Ultra high pressure mercury lamp / 210 W type			
Recommended lamp replacement time*1	Lamp mode: High	4000 H			
	Lamp mode: Standard	6000 H			
	Lamp mode: Low	10000 H			
Filter cleaning / replacement cycle (Max.)*1		7000 H			
Screen size		57" to 103" (1.45 m to 2.62 m) (measured diagonally)		60" to 110" (1.52 m to 2.79 m) (measured diagonally)	
Light output	Lamp mode: High	2600 lm	3000 lm	2800 lm	3300 lm
	Lamp mode: Standard	2100 lm	2100 lm	2000 lm	2400 lm
	Lamp mode: Low	1700 lm	1700 lm	1600 lm	1900 lm
Colour light output	Lamp mode: High	2600 lm	3000 lm	2800 lm	3300 lm
	Lamp mode: Standard	2100 lm	2100 lm	2000 lm	2400 lm
	Lamp mode: Low	1700 lm	1700 lm	1600 lm	1900 lm
Contrast ratio (full white / full black)*2		2000:1		3000:1	
Speaker		16 W x 1 (monaural)			
Displayable scanning frequency	Horizontal	14 kHz to 93 kHz		15 kHz to 92 kHz	
	Vertical	47 Hz to 93 Hz		48 Hz to 92 Hz	
Display resolution	Computer signal input	Maximum display resolution: UXGA 1600 x 1200 dots*3			
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, The following items are available for digital signal (HDMI input) only; 1080/60p, 1080/50p			
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N			
Keystone correction (Max.) - Vertical		+/- 7.5 degrees			
OSD language		24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)			
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack			
	INPUT B	RGB input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack			
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support			
	S VIDEO IN	S video input connector: Mini DIN 4-pin, Audio input connector: Pin jack (x2) (shared with VIDEO IN)			
	VIDEO IN	Video input connector: Pin jack, Audio input connector: Pin jack (x2) (shared with S VIDEO IN)			
	OUTPUT	Monitor output connector*4: Mini D-sub 15-pin (female), Audio output connector*5: Stereo mini jack (variable out)			
	REMOTE	RS-232C connector: D-sub 9-pin (female)		RS-232C connector: D-sub 9-pin (male)	
	LAN	RJ-45, 10BASE-T/100BASE-TX			
	USB	Type-A, Type-B			
	MICROPHONE IN	Microphone input: Mini Jack			
Acoustic noise	Lamp mode: Low	Lamp mode: Low: 30 dB			
Operating temperature / Operating humidity		0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)			
Storage temperature / Storage humidity		-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)			
Power requirements		AC 100 V to 240 V, 3.2 A to 1.3 A, 50 Hz / 60 Hz			
Power consumption	AC 100 V to 120 V	Lamp mode: High: 291 W	Lamp mode: High: 315 W	Lamp mode: High: 305 W	Lamp mode: High: 308 W
	AC 220 V to 240 V	Lamp mode: High: 281 W	Lamp mode: High: 302 W	Lamp mode: High: 294 W	Lamp mode: High: 297 W
Power Consumption (Standby Mode)	AC 100 V to 120 V	0.5 W (when "Standby mode" is set to "Low")			
	AC 220 V to 240 V	0.5 W (when "Standby mode" is set to "Low")			
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	5.0 W (LAN), 5.6 W (optional WLAN module), 5.8 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")			
	AC 220 V to 240 V	5.3 W (LAN), 5.9 W (optional WLAN module), 6.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")			
Standby Mode / Networked Standby Mode Activated		After about 10 Minutes			
Wireless Network(s) On/Off Switch		1) Press the MENU button, then select [Connection/Power], 2) [WLAN Settings], 3) [WLAN Connection], 4) Select On or Off			
Heat dissipation	AC 100 V to 120 V	993 BTU/h	1075 BTU/h	1041 BTU	1051 BTU
	AC 220 V to 240 V	959 BTU/h	1031 BTU/h	1004 BTU	1014 BTU
Dimensions (W x H x D) (without protrusions)		Approx. 365 x 138.7 x 310 mm (14 3/8 x 5 15/32 x 12 7/32 inches)			
Mass		Approx. 4.4 kg (9 lb)			
Supplied accessories		Remote commander (RM-PJ8)			
Optional Accessories		Replacement lamp (LMP-E212), Wireless LAN Module (IFU-WLM3)			

*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 value is average. | *3 Available for VESA Reduced Blanking signal. |*4 From INPUT A and INPUT B. | *5 Works as an audio switcher function. Output from a selected channel; not available in standby.

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

Ultra Short Throw Series

3 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.

Easy to adjust to any whiteboard
- 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.

Rear connector panel for the VPL-SX631, VPL-SW631, VPL-SW636C

3LCD
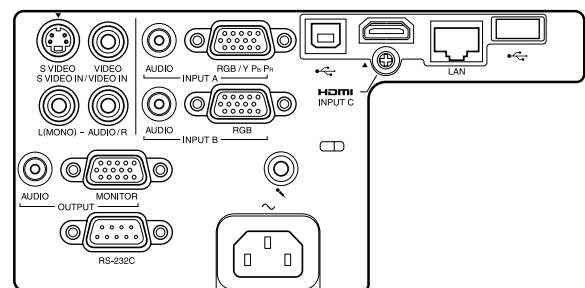
BrightEra™
Long Lasting Optics

*VPL-SW636C only

S-Series	Service and Support

PrimeSupport

3 Years / 3 Year Lamp or 3000 Hours

PrimeSupport⁺

PS.VPL.SESERIES.2Y
2 Years Extension S Series Total: 5 Years

PS.VPL.SESERIES.3YL
3 Year warranty with loan unit for S Series

PS.LMP.SESERIES.5YL
5 Year warranty with loan unit for S Series

S-Series	Optional Accessories

LMP-E212
Replacement projector lamp

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

Oi/Android APP
Connect your devices to projectors via a WiFi network with the VueMagic™ app

		VPL-SX631	VPL-SW631	VPL-SW636C
Light output / color light output		3,300 lumens (High mode)		
Display device	Size of effective display area	0.63"(16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3	0.59" (15 mm) x 3 BrightEra LCD Panel, Aspect ratio 16:10	
	Number of pixels	2,359,296 (1024x768 x 3) pixels	3,072,000 (1280x800 x 3) pixels	
Contrast ratio (full white / full black) *1		3,000: 1		
Light source		UHP mercury Lamp 225 W type		
Recommended lamp replacement time *2		4,000 H (Hi) / 6,000 H (Std) / 10,000 H (Low)		
Filter cleaning cycle *2		Same time as the lamp replacement is recommended		
Projection lens - Zoom		Optional: Manual (Approx. x1.03)		
Projection lens - Focus		Manual		
Projection lens - Lens shift		Manual, Vertical: +/- 3.1% Horizontal: +/- 2.3%	Manual, Vertical: +/- 3.7% Horizontal: +/- 2.3%	
Projection lens - Throw ratio		0.27:1 (0.267 - 0.274:1)		
Keystone correction		Max. Vertical: +/- 5 degrees		Max. Vertical: +4/- 1 degrees
Accoustic noise		High 35dB / Standard 32dB / Low 28dB		
OSD language		27-languages (English, French, German, Italian Spanish, Portuguese, Japanese, Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungarian, Greek, Czech, Slovakia, Romanian)		
Computer and video input / output				
INPUT A		RGB / Y PB PR input connector: Mini D-sub 15 pin female / Audio input connector: Stereo mini jack		
INPUT B		RGB input connector: Mini D-sub 15 pin female / Audio input connector: Stereo mini jack		
INPUT C		HDMI input connector: HDMI 19-pin, HDCP support, Audio input connector: HDMI audio support		
VIDEO IN		Video input connector: Phono jack		
S VIDEO IN		S Video input connector: Mini DIN 4-pin		
Monitor OUT		Monitor output connector: Mini D-sub 15-pin		
Audio OUT		Stereo mini		
Built in Interactive capability		-	-	Yes
Dual Pen		-	-	Yes
Auto Calibration		-	-	Yes
PC Free Interactive		-	-	Yes
Driver less		-	-	Yes
Display resolution	Maximum display resolution	UXGA 1600 x 1200 dots*3		
	Video signal input	480/60i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p		
Control signal input / output, Others				
RS-232C		D-sub 9-pin male		
LAN		RJ-45 10BASE-T / 100BASE-TX		
USB		Type-A, Type-B		
Microphone input		Mini jack		
Speaker		Speaker 16 W (monaural)		
Operating temperature (Operating humidity)		0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)		
Storage temperature (Storage humidity)		-10°C to +60°C / -4°F to +140°F (20% to 80%; no condensation)		
Power requirements		AC 100V to 240V. 3.3 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 (Hi / Std / Low) AC 100 V - 120 V		305 W / 261 W / 232 W	330 W / 261 W / 231 W	341 W / 274 W / 266 W
Power consumption (Hi / Std / Low) AC 220 V - 240 V		294 W / 252 W / 225 W	320 W / 252 W / 224 W	328 W / 245 W / 239 W
Power Consumption (Standby Mode)		0.5W (standby in Low)		
Network Standby (LAN/WLAN) mode power consumption (Std / Low) AC 100 V - 120 V		5.6 W / 5.9 W		
Network Standby (LAN/WLAN) mode power consumption (Std / Low) AC 220 V - 240 V		5.6 W / 6.2 W		
Heat dissipation AC 100 V to 120 V		1041 BTU	1126 BTU	1163 BTU
Heat dissipation AC 220 V to 240 V		1003 BTU	1092 BTU	1119 BTU
Outside dimensions (W x H x D)		Approx: 372 x 138 x 382mm (14 21/32 x 5 7/16 x 15 1/32 inches) (without protrusions)		
Mass		6.0kg (13 lb)		6.3kg (14 lb)
Supplied accessories		PSS-645 Wall Mount, RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), Operating Instructions (CD-ROM) (1), Quick Reference Manual (1), Application Software (CD-ROM) (1), Warranty card (1), Safety Regulations/QRM (1), Security Label (1)		PSS-645 Wall Mount, RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), 5m USB Cable (1), Operating Instructions (CD-ROM) (1), Quick Reference Manual (1), Application Software (CD-ROM) (1), Warranty card (1), Safety Regulations/QRM (1), Security Label (1)
Wireless module (WLAN)		IFU-WLM3 (optional)		
Interactive Pens		-		IFU-PN250A (1), IFU-PN250B (1)
Replacement lamp		LMP-E220		

*1 This value is 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 Not available in standby. | *4 Works as an audio switcher function. Output from a selected channel; not available in standby.

For full product specifications and features please visit
pro.sony.eu/ultra-short-throw

C-Series

3 energy-efficient Installation models that offer best in class TCO. High image quality and high brightness in a stylish design that blend into any decor.

Higher resolution lens
- The high resolution Advanced Crisp Focus (ACF) lens offers a large diameter and fine pitch to ensure clear, sharp pictures.
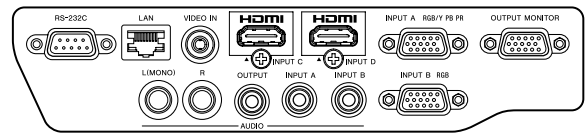
Advanced Geometric Correction
- Perfect fit every time. Each image corner and side can be adjusted for a true, square fit - invaluable when projecting from an offset position.

Auto Input Search
- Automatically switches to the correct input, simplifying set-up and saving time.

Rear connector panel for the VPL-CX236, VPL-CW256 and VPL-CW276 projectors

3LCD

BrightEra™
Long Lasting Optics

C-Series	Service and Support

PrimeSupport

3 Years / 1 Year Lamp or 1000 Hours

PrimeSupport+

PS.VPL.FCSERIES.2Y
2 Years Extension C Series Total: 5 Years

PS.VPL. FCSERIES.3YL
3 Year warranty with loan unit for C Series

PS.VPL. FCSERIES.5YL
5 Year warranty with loan unit for C Series

PS.LMP.FCSERIES.2Y
2 Years Extension for C or F Series lamp. Total: 3 years

C-Series	Optional Accessories

LMP-C250
Replacement projector lamp (CX236/CW256)

LMP-C280
Replacement projector lamp (CX276)

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

		VPL-CX236	VPL-CW256	VPL-CW276
Display system		3 LCD system		
Display device	Size of effective display area	0.63" (16 mm) x 3, BrightEra, Aspect ratio: 4:3	0.75" (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10	
	Number of pixels	6,912,000 (1920 x 1200 x 3) pixels	3,072,000 (1280 x 800 x 3) pixels	
Projection lens	Focus	Manual		
	Zoom - Powered/Manual	Manual		
	Zoom - Ratio	Approx. x1.45		
	Throw Ratio	1.66:1 to 2.41:1	1.32:1 to 1.91:1	
Lens shift	Powered/Manual	Manual		
	Range Vertical	+/- 5%		
	Range Horizontal	+/- 4%		
Light source		Ultra high pressure mercury lamp, 245 W type		Ultra high pressure mercury lamp, 280 W type
Recommended lamp replacement time*1	Lamp mode: High	3000 H		
	Lamp mode: Standard	4000 H		
	Lamp mode: Low	5000 H		-
Filter cleaning / replacement cycle (Max.)*1		Same time as the lamp replacement is recommended		
Screen size		40" to 300" (1.02 m to 7.62 m) (measured diagonally)		
Light output	Lamp mode: High	4100 lm	4500 lm	5200 lm
	Lamp mode: Standard	3100 lm	3400 lm	4200 lm
	Lamp mode: Low	2200 lm	2500 lm	-
Colour light output	Lamp mode: High	4100 lm	4500 lm	5200 lm
	Lamp mode: Standard	3100 lm	3400 lm	4200 lm
	Lamp mode: Low	2200 lm	2500 lm	-
Contrast ratio (full white / full black)*2		3100:1	3700:1	3100:1
Speaker		10 W x 1 (monaural)		
Displayable scanning frequency	Horizontal	19 kHz to 92 kHz		
	Vertical	48 Hz to 92 Hz		
Display resolution	Computer signal input	Maximum display resolution: UXGA 1600 x 1200 dots*3		
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i		
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60		
Keystone correction (Max.)	Vertical	+/- 30°		
	Horizontal	+/- 20°		
OSD language		24-language (English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Indonesian, Finnish, Hungarian, Greek)		
INPUT OUTPUT (Computer/Video/Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack		
	INPUT B	RGB input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack		
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support		
	INPUT D	HDMI input connector: HDMI 19-pin, HDCP support		
	VIDEO IN	Video input connector: Pin jack, Audio input connector: Pin jack (x2)		
	OUTPUT	Monitor output connector*4: Mini D-sub 15-pin (female), Audio output connector*5: Stereo mini jack (variable out)		
	REMOTE	RD-sub 9pin (male)/RS232C		
	LAN	RJ-45, 10BASE-T/100BASE-TX		
Acoustic noise		Lamp mode: Standard: 29 dB		Lamp mode: Standard: 34 dB
Operating temperature / Operating humidity		0°C to 40°C (32°F to 104°F) / 20% to 80% no condensation		
Storage temperature / Storage humidity		-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)		
Power requirements		AC 100 V to 240 V 3.5 A to 1.5 A, 50/60 Hz		AC 100 V to 240 V 4.0 A to 1.7 A, 50/60 Hz
Power consumption	AC 100 V to 120 V	Lamp mode: High : 350 W	Lamp mode: High : 346 W	Lamp mode: High : 395 W
	AC 220 V to 240 V	Lamp mode: High : 330 W	Lamp mode: High : 326 W	Lamp mode: High : 372 W
Power Consumption (Standby Mode)	AC 100 V to 120 V	0.5 W (when "Standby mode" is set to "Low")		
	AC 220 V to 240 V	0.5 W (when "Standby mode" is set to "Low")		
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	3.0 W (LAN) (when "Standby Mode" is set to "Standard")		
	AC 220 V to 240 V	3.0 W (LAN) (when "Standby Mode" is set to "Standard")		
Standby Mode / Networked Standby Mode Activated		After about 10 Minutes		
Heat dissipation	AC 100 V to 120 V	1194 BTU/h	1180 BTU/h	1348 BTU/h
	AC 220 V to 240 V	1126 BTU/h	1112 BTU/h	1269 BTU/h
Dimensions (W x H x D) (without protrusions)		Approx. 406 × 113 × 330.5 mm (15 31/32 × 4 7/16 × 13 inches)		
Mass		Approx. 5.6 kg (12 lb)		Approx. 5.7 kg (13 lb)
Supplied accessories		Remote commander (RM-PJ8)		
Optional Accessories		Replacement lamp (LMP-C240)		Replacement lamp (LMP-C280)

*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 value is average. | *3 Available for VESA Reduced Blanking signal. | *4 From INPUT A and INPUT B. | *5 Works as an audio switcher function. Output from a selected channel; not available in standby.

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

CH-Series

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

HDBaseT
• Allows simple connectivity using an HDBaseT digital interface, multi signal transmission system, providing a single cable, cost-effective, long-distance, and high-quality digital transmission solution*.
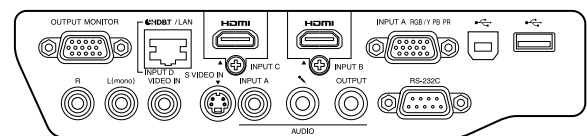
Audio / Speaker bypass
• When set to "Always On," the speaker / microphone is available via Audio Input A.
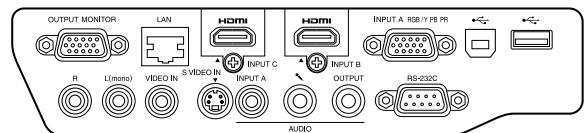
WUXGA resolution installation projectors
• 4000 – 5000 lumens brightness

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

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

3LCD

BrightEra™
Long Lasting Optics

HDBT™

* VPL-CH355 and VPL-CH375 only

CH-Series	Service and Support			
PrimeSupport

3 Years / 1 Year Lamp or 1000 Hours | PrimeSupport⁺ | PS.VPL.FCSERIES.2Y
2 Years Extension
C Series. Total: 5 Years | PS.VPL.FCSERIES.3YL
3 Year warranty with loan unit for C Series | PS.VPL.FCSERIES.5YL
5 Year warranty with loan unit for C Series |

PS.LMP.FCSERIES.2Y
2 Years Extension for C series lamp. Total: 3 years

CH-Series	Optional Accessories

LMP-C250
Replacement projector lamp (CH350/CH355)

LMP-C281
Replacement projector lamp (CH370/CH375)

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

Oi/Android APP
Connect your devices to projectors via a WiFi network with the VueMagic™ app

		VPL-CH350	VPL-CH355	VPL-CH370	VPL-CH375
Display system		3 LCD system			
Display device	Size of effective display area	0.64" (16.3 mm) × 3, Aspect ratio: 16:10			
	Number of pixels	6,912,000 (1920 × 1200 × 3) pixels			
	Aspect ratio	16: 10			
Projection lens	Zoom	Manual (Ratio: Approx. x 1.45)			
	Focus	Manual			
	Lens Shift	Manual (Vertical: +/- 5%, Horizontal: +/- 4%)			
	Throw Ratio	1.5:1 to 2.2:1			
Light source		Ultra high pressure mercury lamp 250 W type		Ultra high pressure mercury lamp 280 W type	
Recommended lamp replacement time		3000 H / 4000 H / 5000 H (Lamp mode: High / Standard / Low)Synchronized filter with lamp replacement		2500 H / 3000 H / 3500 H (Lamp mode: High / Standard / Low) Synchronized filter with lamp replacement	
Screen size		40" to 300" (1.02 m to 7.62 m) (measured diagonally)			
Light output (Mode: High / Standard / Low)		4000 lm / 3200 lm / 2600 lm		5000 lm / 3600 lm / 3100 lm	
Color light output (Mode: High / Standard / Low)		4000 lm / 3200 lm / 2600 lm		5000 lm / 3600 lm / 3100 lm	
Contrast ratio (full white / full black)		2500: 1			
Acoustic noise (Lamp mode: High / Standard / Low)		36dB / 33dB / 29dB		38dB / 35dB / 29dB	
Displayable scanning frequency	Horizontal	19 kHz - 92 kHz			
	Vertical	48 Hz - 92 Hz			
Display resolution	Computer signal input	Maximum display resolution: 1920 × 1200 dots [1] / Panel display resolution: 1920 × 1200 dots			
	Video signal input	480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p			
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N			
Keystone correction		Vertical: Max. +/- 30 degrees, Horizontal: Max. +/- 20 degrees			
OSD language		24-language (English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Indonesian, Finnish, Hungarian, Greek)			
INPUT OUTPUT (Computer/Video/ Control)	INPUT A	RGB / YPbPr input connector: Mini D-sub 15 pin female, Audio input connector: Stereo mini jack			
	INPUT B / INPUT C	HDMI input connector: HDMI 19-pin, HDCP support			
	INPUT D	-		HDBaseT interface connector: RJ45 4 play (Video, Audio, LAN, Control)	
	S VIDEO IN	S-video input connector: Mini DIN 4-pin			
	VIDEO IN	Video input connector: Phono jack			
	OUTPUT	Monitor output connector[2]: Mini D-sub 15-pin (female), Audio output connector[2]: Stereo mini jack			
	REMOTE	D-sub 9-pin (male)			
	LAN	RJ45, 100BASE-TX	RJ45,100BASE-TX (Shared with HDBaseT)	RJ45, 100BASE-TX	RJ45,100BASE-TX (Shared with HDBaseT)
	HDBaseT	-	RJ45, 4 Play	-	RJ45, 4 Play
	USB	Type-A, Type-B			
	MICROPHONE IN	Mini jack			
Speaker		12W × 1 (monaural)			
Operating temperature (Operating humidity)		0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)			
Storage temperature (Storage humidity)		-10°C to +60°C / -14°F to +140°F (20% to 80%; no condensation)			
Power requirements		AC 100 V to 240 V, 3.6 A to 1.6 A, 50/60 Hz		AC 100 V to 240 V, 3.9 A to 1.7 A, 50/60 Hz	
Power consumption (Lamp mode: High / Standard / Low)	AC 100 V to 120 V	353W / 285W / 265W		388W / 315W / 279W	
	AC 220 V to 240 V	334W / 272W / 254W		367W / 299W / 266W	
Standby mode power consumption (Standby mode: Standard / Low)	AC 100 V to 120 V	4.7W / 0.5W	6.1W / 0.5W	4.7 / 0.3W	6.1W / 0.3W
	AC 220 V to 240 V	4.9W / 0.5W	6.2W / 0.5W	4.9 / 0.5W	6.2W / 0.5W
Heat dissipation	AC 100 V to 120 V	1204 BTU		1323 BTU	
	AC 220 V to 240 V	1139 BTU		1252 BTU	
Outside dimensions (W × H × D)		Approx. 406 × 113 × D 330.5 mm (15 31/32 × 4 7/16 × 13 in) (without protrusions)			
Mass		Approx. 5.7 kg / 12 lb			
Supplied accessories		RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), Lens cap (1), Quick Reference Manual (1), Operating Instructions (CD-ROM) (1), Presentation Station for Network Presentation application (CDROM) (1)			

*1 Available for VESA Reduced Blanking signal. | *2 From INPUT A.

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

FX-Series

XGA resolution replacement models for upgrading your AV projection. For venues requiring brighter projections, the FX-Series delivers powerful performance, optional lenses, multi input / output, longer life and low maintenance.

Quad Filter System
- To extend the cleaning cycle and efficiently trap dust.
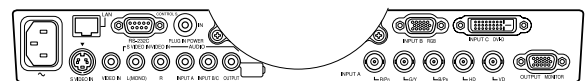
One-way airflow intake
- The one-way intake hole keeps all the internal parts clean.

Award winning Blend-in Design
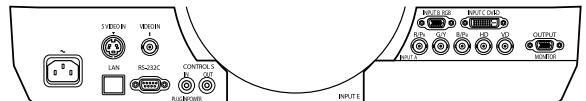- Combining the best of style and functionality, the FX-Series design is clean and understated, and gives the impression that the projector is blended into the ceiling. The connector panel is placed on the lower front face to hide the connectors and cables from the audience's sight.

Rear connector panel for the VPL-FX30 and VPL-FX35 projectors

Rear connector panel for the VPL-FX500L projector

		VPL-FX30	VPL-FX35	VPL-FX500L
Display system		3 LCD system		
Display device	Size of effective display area	0.79 inches (20.1 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3		0.99" (25.0 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3
	Number of pixels	2,359,296 (1024 x 768 x 3) pixels		
Projection lens*1	Focus	Manual		Powered / Manual (Depending on lens)
	Zoom - Powered/Manual	Manual		Powered / Manual (Depending on lens)
	Zoom - Ratio	Approx. x 1.6		
	Throw Ratio	1.42:1 to 2.27:1		
Lens shift	Powered/Manual	Manual		Powered / Manual (Depending on lens)
	Range Vertical	+ 51%		-
	Range Horizontal	+/- 33%		-
Light source	Type/Wattage	Ultra high pressure mercury lamp / 230 W type	Ultra high pressure mercury lamp / 275 W type	Ultra high pressure mercury lamp / 330 W type
	System	-		Twin lamp system
Recommended lamp replacement time*1	Lamp mode: High	4000 H	3000 H	6000 H (With twin lamp sequence use)
	Lamp mode: Standard	5000 H	4000 H	8000 H (With twin lamp sequence use)
Filter cleaning / replacement cycle (Max.)*2		15000 H (Cleaning) Same as the lamp replacement is recommended		
Screen size*1		40" to 600" (1.02 m to 15.24 m) (measured diagonally)		
Light output	Lamp mode: High	4200 lm	5000 lm	7000 lm
	Lamp mode: Standard	3000 lm	4000 lm	5600 lm
Colour light output	Lamp mode: High	4200 lm	5000 lm	7000 lm
	Lamp mode: Standard	3000 lm	4000 lm	5600 lm
Contrast ratio (full white / full black)*3		2000:1		2500:1
Displayable scanning frequency	Horizontal	14 kHz to 93 kHz		
	Vertical	47 Hz to 93 Hz		
Display resolution	Computer signal input	Maximum display resolution: 1920 x 1200 dots *4		Maximum display resolution: UXGA 1600 x 1200 dots*4
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p		
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60		
Keystone correction (Max.)	Vertical	+/- 30 degrees		
OSD language		20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)		
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / YPbPr input connector: 5BNC (female), Audio input connector: Stereo mini jack		RGB / Y PB PR input connector: 5BNC (female)
	INPUT B	RGB input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack (shared with INPUT C)		RGB input connector: Mini D-sub 15-pin (female)
	INPUT C	DVI-D input connector: DVI-D 24-pin (Single link), HDCP support, Audio input connector: Stereo mini jack (shared with INPUT B)		DVI-D input connector: DVI-D 24-pin (Single link), supported HDCP
	S VIDEO IN	S video input connector: Mini DIN 4-pin, Audio input connector: Pin jack (x2) (shared with VIDEO IN)		S-video input connector: Mini DIN 4-pin
	VIDEO IN	Video input connector: Pin jack, Audio input connector: Pin jack (x2) (shared with S VIDEO IN)		Video input connector: BNC
	OUTPUT	Monitor output connector*5: Mini D-sub 15-pin (female), Audio output connector*6: Stereo mini jack (variable out)		Monitor output connector*5: Mini D-sub 15-pin (female)
	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		Control S input connector: Stereo mini jack, Plug in power DC 5V, Control S output connector: Stereo mini jack
Acoustic noise	Lamp mode: Standard	29 dB	31 dB	
Operating temperature / Operating humidity		0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)		
Storage temperature / Storage humidity		-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)		
Power requirements		AC 100 V to 240 V, 3.3 A to 1.3 A, 50/60 Hz	AC 100 V to 240 V, 3.8 A to 1.6 A, 50/60 Hz	AC 100 V to 240 V, 4.8 A to 2.0 A, 50 Hz / 60 Hz
Power consumption	AC 100 V to 120 V	Lamp mode: High : 330 W	Lamp mode: High : 380 W	Lamp mode: High: 480 W
	AC 220 V to 240 V	Lamp mode: High : 310 W	Lamp mode: High : 360 W	Lamp mode: High: 460 W
Power Consumption (Standby Mode)	AC 100 V to 120 V	0.2 W (when "Standby mode" is set to "Low")		0.1 W (when "Standby mode" is set to "Low")
	AC 220 V to 240 V	0.3 W (when "Standby mode" is set to "Low")		0.2 W (when "Standby mode" is set to "Low")
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	11.0 W (LAN) (when "Standby Mode" is set to "Standard")		13.0 W (LAN) (when "Standby Mode" is set to "Standard")
	AC 220 V to 240 V	12.0 W (LAN) (when "Standby Mode" is set to "Standard")		
Standby Mode / Networked Standby Mode Activated		After about 10 Minutes		
Heat dissipation	AC 100 V to 120 V	1126 BTU/h	1297 BTU/h	1638 BTU/h
	AC 220 V to 240 V	1058 BTU/h	1228 BTU/h	1569 BTU/h
Dimensions (W x H x D) (without protrusions)		Approx. 390 x 134 x 463 mm (15 11/32 x 5 9/32 x 18 7/32 inches)		Approx. 530 x 204 x 545 mm (20 7/8 x 8 1/32 x 21 15/32 inches)
Mass		Approx. 7.9 kg (17 lb)	Approx. 8.0 kg (17 lb)	Approx. 20 kg (44 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 standby.

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

FH-Series

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

Model: VPL-FH60/65

Edge-Blend and Warp capabilities
• Built-in GUI and PC software for multi projector image blending with warping.

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

Side by Side content
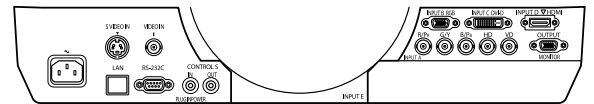• Displays two different images / content from two different input sources.

Twin Lamp System
• Two lamps, redundancy for a fail safe system.
  The VPL-FH500L will never be down due to lamp failure.
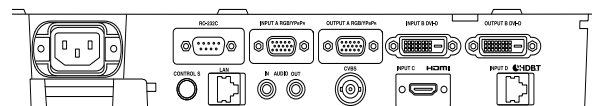
Rear connector panel for the VPL-FH31 projector

Rear connector panel for the VPL-FH500L projector

Rear connector panel for the VPL-FH60/65 projector

3LCD

BrightEra™
Long Lasting Optics

		VPL-FH31	VPL-FH500L	VPL-FH65	VPL-FH60
Display system		3 LCD system			
Display device	Size of effective display area	0.76"(19.3 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10	0.95" (24.1 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10	0.76"(19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10	
	Number of pixels	6,912,000 (1920 x 1200 x 3) pixels			
Projection lens*1	Focus	Manual	Powered / Manual (Depending on lens)	Powered	
	Zoom - Powered/Manual	Manual	Powered / Manual (Depending on lens)	Powered	
	Zoom - Ratio	Approx. x 1.6			
	Throw Ratio	1.39:1 to 2.23:1			
Lens shift	Powered/Manual	Manual	Powered / Manual (Depending on lens)	Powered	
	Range Vertical	+60%	-	-5%, +60%	
	Range Horizontal	+/- 32%	-	+/- 32%	
Light source	Type/Wattage	Ultra high pressure mercury lamp / 330 W type		High pressure mercury lamp / 370 W type	High pressure mercury lamp / 280 W type
	System	-	Twin lamp system	-	-
Recommended lamp replacement time*2	Lamp mode: High	3000 H	6000 H (With twin lamp sequence use)	3000 H	
	Lamp mode: Standard	4000 H		4000 H	
Filter cleaning / replacement cycle (Max.)*2		15000 H (Cleaning) Same as the lamp replacement is recommended		20,000 H (service maintenance)	
Screen size*1		40" to 600" (1.02 m to 15.24 m) (measured diagonally)			
Light output	Lamp mode: High	4300 lm	7000 lm	6000 lm	5000 lm
	Lamp mode: Standard	3400 lm	5600 lm	4400 lm	3200 lm
Colour light output	Lamp mode: High	4300 lm	7000 lm	6000 lm	5000 lm
	Lamp mode: Standard	3400 lm	5600 lm	4400 lm	3200 lm
Contrast ratio (full white / full black)*3		2000:1	2500:1	2000:1	
Displayable scanning frequency	Horizontal	14 kHz to 93 kHz		15 kHz to 92 kHz	
	Vertical	47 Hz to 93 Hz		48 kHz to 92 kHz	
Display resolution	Computer signal input	Maximum display resolution: 1920 x 1200 dots *4	Maximum display resolution: UXGA 1600 x 1200 dots*4	Maximum display resolution: 1920 x 1200 dots *4	
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p	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, 1080/30p*7	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for digital signal only; 1080/60p, 1080/50p, 1080/24p	
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60			
Keystone correction (Max.)	Vertical	+/- 30 degrees	+/- 5 degrees	+/- 30 degrees	
	Horizontal	+/- 30 degrees	-	+/- 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)	20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Persian)	24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian,Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic,Farsi, Finnish, Indonesian, Hungarian, Greek)	
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / Y PB PR input connector: 5BNC (female), Audio input connector: Stereo mini jack	RGB / Y PB PR input connector: 5BNC (female)	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack	
	INPUT B	RGB input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack (shared with INPUT C	RGB input connector: Mini D-sub 15-pin (female)	DVI input connector: DVI-D 24-pin (single link), HDCP support, Audio input connector: Shared with Input A	
	INPUT C	DVI-D input connector: DVI-D 24-pin (Single link), HDCP support, Audio input connector: Stereo mini jack (shared with INPUT B)	DVI-D input connector: DVI-D 24-pin (Single link), supported HDCP	HDMI input connector: HDMI 19-pin, HDCP support, Audio input connector: HDMI Audio Support	
	INPUT D	HDMI input connector: HDMI 19-pin, HDCP support		HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)	
	S VIDEO IN	S video input connector: Mini DIN 4-pin, Audio input connector: Pin jack (x2) (shared with VIDEO IN)	S-video input connector: Mini DIN 4-pin	Video input connector: BNC, Audio input connector: Shared with input A	
	VIDEO IN	Video input connector: Pin jack, Audio input connector: Pin jack (x2) (shared with S VIDEO IN)	Video input connector: BNC	Monitor output for Input A Connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack-	
	OUTPUT	Monitor output connector*5: Mini D-sub 15-pin (female), Audio output connector*6: Stereo mini jack (variable out)	Monitor output connector*5: Mini D-sub 15-pin (female)	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported Audio output, Monitor out connector: Stereo mini jack	
	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	Control S input connector: Stereo mini jack, Plug in power DC 5V, Control S output connector: Stereo mini jack	Control S input connector: Stereo mini jack Plug in power DC 5V,	
Acoustic noise (Lamp mode: Standard)		30 dB	-	28 dB	
Operating temperature / Operating humidity		0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)		0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)	
Storage temperature / Storage humidity		-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)		-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)	
Power requirements		AC 100 V to 240 V, 4.0 A to 1.6 A, 50/60 Hz	AC 100 V to 240 V, 4.8 A to 2.0 A, 50 Hz/60 Hz	AC 100 V to 240 V, 5.0A to 2.1A, 50 Hz / 60 Hz	AC 100 V to 240 V, 4.3A to 1.8A, 50 Hz / 60 Hz
Power consumption (Lamp mode: High)	AC 100 V to 120 V	Lamp mode: High : 400 W	Lamp mode: High: 490 W	Lamp mode: High/Standard: 498/346 W	Lamp mode: High/Standard: 429 /268 W
	AC 220 V to 240 V	Lamp mode: High : 380 W	Lamp mode: High: 460 W	Lamp mode: High/Standard: 483 /337 W	Lamp mode: High/Standard:: 416/261 W
Power Consumption (Standby Mode)	AC 100 V to 120 V	0.2 W (when "Standby mode" is set to "Low)	0.1 W (when "Standby mode" is set to "Low")	0.5 W (when "Standby mode" is set to "Low")	
	AC 220 V to 240 V	0.3 W (when "Standby mode" is set to "Low")	0.2 W (when "Standby mode" is set to "Low")		
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	9.2 W (LAN) (when "Standby Mode" is set to "Standard")	11.0 W (LAN) (when "Standby Mode" is set to "Standard")	15.0 W (LAN) / 15.0 W (HDBaseT) /15.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	
	AC 220 V to 240 V	10.4 W (LAN) (when "Standby Mode" is set to "Standard")	10.0 W (LAN) (when "Standby Mode" is set to "Standard")	13.3 W (LAN) / 13.3 W (HDBaseT)13.3 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	
Heat dissipation	AC 100 V to 120 V	1365 BTU/h	1672 BTU/h	1699 BTU/h	1464 BTU/h
	AC 220 V to 240 V	1297 BTU/h	1569 BTU/h	1648 BTU/h	1419 BTU/h
Dimensions (W x H x D) (without protrusions)		Approx. 390 x 134 x 463 mm (15 11/32 x 5 9/32 x 18 7/32 inches)	Approx. 530 x 204 x 545 mm (20 7/8 x 8 1/32 x 21 15/32 inches)	Approx. 460 x 169 x 515 mm (18 1/8 x 6 21/32 x 20 9/32 inches)	
Mass		Approx. 8.3 kg (18 lb)	Approx. 20 kg (44 lb)	Approx. 13 kg (28 lb)	
Supplied accessories		Remote commander (RM-PJ19)		RM-PJ27 Remote RM-PJ27 Remote Commander (1), Size AA (R6) batteries (2), AC Power Cord (1), Plug holder (1), Terminal (1)RM-PJ27 Remote Commander (1), Size AA (R6) batteries (2), AC Power Cord (1), Plug holder (1), Terminal, Size AA (R6) batteries (2), AC Power Cord (1), Plug holder (1), Terminal Cover (1), Quick Reference Manual (1), Operating Instructions (CD-ROM) (1)	

*1 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 standby. | *7 Available via BKM-FW16.

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

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.

Laser light projectors with Sony 3LCD BrightEra™ Panel Technology

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

Reality Creation

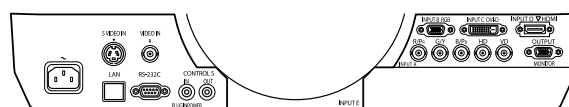- Clarity in every pixel. Sony's process technology and proprietary algorithm creates pixel mapping that is as close to the original you can get.
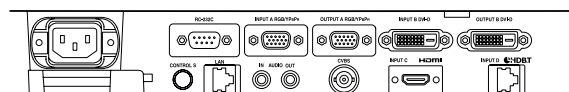
Contrast Enhancer

- Analyses every image to make dark scenes darker and light scenes brighter to create even better contrast.

Rear connector panel for the VPL-FHZ700L projector

Rear connector panel for the VPL-FHZ57, VPL-FHZ60 & VPL-FHZ65 projectors

		VPL-FHZ57	VPL-FHZ60	VPL-FHZ65	VPL-FHZ700L
Display system		3 LCD system			
Display device	Size of effective display area	0.76" (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10			0.95" (24.1 mm) x 3 BrightEra LCD Panel, Aspect ratio 16:10
	Number of pixels	6,912,000 (1920 x 1200 x 3) pixels			
Projection lens	Focus	Powered			Powered/manual (depending on lens)
	Zoom – Powered/Manual	Powered			Powered/manual (depending on lens)
	Zoom – Ratio	Approx. x 1.6			Powered/manual (depending on lens)
	Throw ratio	1.39:1 to 2.23:1			Depends on optional lens
	Lens shift – Powered/Manual	Powered			Depends on optional lens
	Lens shift – Range Vertical	-5% / +60% *5			Depends on optional lens
	Lens shift – Range Horizontal	+/- 32% *5			Depends on optional lens
Light source	Type	Laser diode			
Filter cleaning / replacement cycle (Max.)*2	Filter cleaning / replacement cycle (Max.)	20000 H (cleaning)			
Screen size*1	Screen size (measured diagonally)	40" to 600" (1.02 m to 15.24 m)			
Light output	Lamp mode: High	4100 lm	5000 lm	6000 lm	7000 lm
	Lamp mode: Standard	3000 lm	3500 lm	4000 lm	5600 lm
Color light output	Lamp mode: High	4100 lm	5000 lm	6000 lm	7000 lm
	Lamp mode: Standard	3000 lm	3500 lm	4000 lm	5600 lm
Contrast ratio (full white / full black)*3		10000:1			8000:1
Displayable scanning frequency	Horizontal	15 kHz to 92 kHz			14 kHz to 93 kHz
	Vertical	48 Hz to 92 Hz			47 kHz to 93 kHz
Display resolution	Computer signal input	Maximum display resolution: 1920 x 1200 dots *4			
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p			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
Color system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60			
Keystone correction (Max.)	Vertical	+/- 30 degrees			
	Horizontal	+/- 30 degrees			
OSD language		24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)			
INPUT OUTPUT (Computer/ Video/Control)	INPUT A	RGB / Y PB PR input connector:Mini D-sub 15 pin (female) Audio input connector: Stereo mini jack			RGB / Y PB PR input connector: 5BNC (female)
	INPUT B	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with input A			RGB input connector: Mini D-sub 15 pin female
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support			DVI-D input connector: DVI-D 24-pin (Single link), supported HDCP
	INPUT D	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)			HDMI input connector: HDMI 19-pin, HDCP support, Digital RGB / Y PB PR / Y CB CR
	INPUT E	–			Optional adaptor slot (For HDBaseT and 3G-SDI Adaptor BKM-PJ10 & BKM-PJ20)
	VIDEO IN	Video input connector: BNC Audio input connector: Shared with input A			Video input connector: BNC
	OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack			Monitor output connector: Mini D-sub 15-pin (female)
	OUTPUT B	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported Audio output, Monitor out connector: Stereo mini jack			
	REMOTE	RS-232C connector: D-sub 9-pin (male)			RS-232C connector: D-sub 9-pin (female)
	LAN	RJ45, 10BASE-T/100BASE-TX			RJ45, 10BASE-T/100BASE-TX
	IR (Control S)	Stereo mini jack, Plug in power DC5V			
Acoustic noise	Lamp mode: High	32 dB	34 dB		39 dB
	Lamp mode: Low	28 dB			33 dB
Operating temperature / Operating humidity		0°C to 40°C / 32°F to 104°F / 20% to 80% (no condensation)			0°C to 40°C / 32°F to 104°F / 35% to 85% (no condensation)
Storage temperature / Storage humidity		-20°C to +60°C / -4°F to +140°F / 20% to 80% (no condensation)			-20°C to +60°C / -4°F to +140°F / 10% to 90% (no condensation)
Power requirements		AC 100 V to 240 V, 50 Hz / 60 Hz	AC 100 V to 240 V, 4.5 A to 1.9 A, 50/60 Hz	AC 100 V to 240 V, 5.5 A to 2.3 A, 50/60 Hz	AC 100 V to 240 V, 5.0 A to 2.1 A, 50/60 Hz
Power consumption	AC 100 V to 120 V	Lamp mode: High: 370 W	Mode: High: 420 W	Mode: High: 509 W	497 W / 404 W
	AC 220 V to 240 V	Lamp mode: High: 355 W	Mode: High: 408 W	Mode: High: 492 W	476 W / 387 W
Power consumption (Standby Mode)	AC 100 V to 120 V	0.5W (when "Standby mode" is set to "Low")			12.2 W / 0.1 W
	AC 220 V to 240 V	0.5W (when "Standby mode" is set to "Low")			8.4 W / 0.5 W
Power consumption (Networked Standby Mode)	AC 100 V to 120 V	15.0W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")			12.2 W (LAN) 13.8 W (optional HDBaseT adaptor)13.8 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
	AC 220 V to 240 V	13.3W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")			8.4 W (LAN) 10.0 W (optional HDBaseT adaptor)10.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
Heat dissipation	AC 100 V to 120 V	1262 BTU/h	1433 BTU/h	1737 BTU/h	1696 BTU/h
	AC 220 V to 240 V	1211BTU/h	1393 BTU/h	1679 BTU/h	1624 BTU/h
Dimensions (W x H x D) (without protrusions)		Approx. 460 x 169 x 515 mm (18 1/8 x 6 21/32 x 20 9/32 inches)			Approx. W 530 x H 204 x D 545 mm (W 20 7/8 x H 8 1/32 x D 21 15/32 in)
Mass		16 kg / 34 lb			22 kg / 47 lb
Supplied accessories	Remote commander	RM-PJ27			
Optional lenses	Projection Lens (throw ratios)	VPLL-3003 / 3007 (0.65:1) / Z3009 (0.85-1.0) / Z3024 (2.34 to 3.19) / Z3032 (3.18 to 4.84)			VPL-Z4007 (0.68-0.8) / VPLL-4008 (1.08) / VPL-Z4011 (1.38 to 2.06) / VPLL-Z4015 (2.02 to 2.67) / VPLL-Z4019 (2.62 to 3.36) / VPLL-Z4025 (3.30 to 6.11) / VPLL-Z4045 (6.08 to 10.52)
Optional accessories	Ceiling Bracket	PAM 310			N/A
	Extension Pole & Celling plate	PAM-0.5M / PAM-1.0M / PAM-1.5M			N/A

*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 standard lens.

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

F-Series | Service and Support

PrimeSupport and PrimeSupport Plus for VPL-FX30, FX35, FH31, VPL-FH60/65, FX500L, and FH500L.

PrimeSupport

3 Years / 1 Year Lamp or
1000 Hours

PrimeSupport⁺

PS.VPL.FCSERIES.2Y
2 Years Extension
Total: 5 Years

PS.VPL.FCSERIES.3YL
3 Year warranty
with loan unit

PS.VPL.FCSERIES.5YL
5 Year warranty
with loan unit

PS.LMP.FCSERIES.2Y
2 Years Extension lamp
Total: 3 years

PrimeSupport and PrimeSupport Plus for VPL-FHZ57, FHZ60, FHZ65 and FHZ700L.

PrimeSupport

5 Years or 12,000 Hours

PrimeSupport⁺

PSP.LPROJHVY.5
5 Years or 20,000 hours

F-Series | Optional Accessories

LMP-F272
(FH31/FX35)
Replacement lamp

LMP-F370
(VPL-FH65)
Replacement lamp

LMP-F280
(VPL-FH60)
Replacement lamp

LMP-F230
(FX30)
Replacement lamp

LMP-F330
(FX500L / FH500L)
Replacement lamp

Optional Accessories for VPL-FX30/35, VPL-FH60/65, VPL-FHZ57, VPL-FHZ60/65

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

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

Optional bayonet Lenses for VPL-FH60/65 and FHZ57,60,65 plus upgrade compatible adaptor for 2000 and 1000 lens series.

	VPLL-3007	VPLL-Z3009	VPLL-Z3024	VPLL-Z3032
WUXGA	0.65:1	0.85 - 1.0	2.34 - 3.19	3.18 - 4.84

Optional Lenses for FX30, FX35, FH31.

	VPLL-2007	VPLL-Z2009	VPLL-Z3024*	VPLL-Z3032*
WUXGA	0.65:1	0.85 - 1.0	2.34 - 3.19	3.18 - 4.84
XGA	0:66:1	0.86 - 1.01	2.38 - 3.26	3.24 - 4.95

Value Series - Optional Lenses for FX500L, FH500L and FHZ700L.

		VPLL-FM22	VPLL-ZM42	VPLL-ZM102	VPLL-ZM101
WUXGA		0.87	1.83 to 2.32	3.28 to 4.83	-
XGA		0.89	1.87 to 2.30	3.35 to 4.92	4.47 to 6.58
Compatible with	VPL-FX500L	YES	YES	YES	YES
	VPL-FH500L	YES	YES	YES	NO
	VPL-FHZ700L	NO	YES	NO	NO

Premium Series - Optional Lenses for FX500L, FH500L and FHZ700L.

		VPLL-Z4007	VPLL-4008	VPLL-Z4011	VPLL-Z4015	VPLL-Z4019	VPLL-Z4025	VPLL-Z4045
WUXGA		0.68 - 0.8	1.08	1.38 - 2.06	2.02 - 2.67	2.62 - 3.36	3.30 - 6.11	6.08 - 10.52
XGA		0.69 - 0.81	1.1	1.4 - 2.1	2.06 - 2.72	2.67 - 3.42	3.36 - 6.23	6.19 - 10.72
Compatible with	VPL-FX500L	YES	YES	YES	YES	YES	YES	YES
	VPL-FH500L	YES	YES	YES	YES	YES	YES	YES
	VPL-FHZ700L	YES	YES	YES	YES	YES	YES	YES

*Purchase with PK-F30LA1 adapter

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

A smarter way to engage

BRAVIA Professional Displays

Create the perfect image for your digital signage, communal areas and meeting rooms with our strongest line-up of ultra-slim, energy efficient BRAVIA Professional Displays. There are 11 models to choose from, in detailed Full HD and immersive 4K. Screen sizes range from 40" to 85".

Smarter features
BRAVIA Professional supports Android*, so there are even more options for creating dynamic, media-rich signage and displaying all kinds of content. Google Cast™ brings even greater connectivity: download apps; share content from a PC, tablet or smartphone with easy screen mirroring.

Dynamic digital signage
A built-in HTML5 platform makes it simple to create your own digital signage. It's easy to incorporate media rich content like video, live TV or a Twitter feed, as well as text and graphics; upload content via your local network, the cloud or USB drive. No dedicated hardware player is needed.

Excludes FWL-40W705C, FWL-48W705C and FWD-85X9600P

Widest choice in 4K
With over 8 million pixels, 4K resolution offers incredible realism with four times the detail of Full HD. BRAVIA offers the widest selection of 4K Professional Displays around, with screen sizes in 43'', 49", 55", 65", 75" and 85".

Highlights

• IP control – control remotely over IP via RJ45, by web API (or RS-232C with optional HDMI converter box)

3-year PrimeSupport package with Advanced Exchange – replacement rather than repair, if anything goes wrong.

		FW-43X8370C	FW-49X8370C	FW-55X8570C	FW-65X8570C	FW-75X8570C
Display specifications	Screen size (diagonal)	43''	49''	55''	65''	75''
	Brightness (cd/m²)***	325	390	450	415	435
	Native contrast ratio	1,400:1	1,400:1	4,000:1	4,000:1	4,000:1
	Response time (ms)	5	5	6	6,5	6
	Dynamic contrast ratio	over 1 million				
	Viewing angle (Right/Left/Up/Down)	178 (89/89/89/89)				
	Display resolution	4K (3840x2160)				
	Aspect ratio	16:9				
	Portrait (Hardware compatibility)*	-	-	Yes****	Yes****	Yes****
	Android system	Yes				
	Portrait mode	No		Yes		
TV System	Tuner	DVB-T/T2/C/S/S2				
	Number of tuners	2				
Display features	Dimming type	Frame Dimming				
	Display device	LCD				
	Backlight type		Edge LED		Direct LED	
	Operation time	17/7				
Video specs	Wide Mode	Full/Normal/Wide Zoom/Zoom/Caption/14:9 for Video Normal/Full1/Full2 for PC				
	4:3 Default	Yes				
	Video Processing	4K X-Reality Pro				
	Motionflow	Motionflow XR 800Hz				
	Compatible with HDR	-	-	Yes	Yes	Yes
	Video Signal	HDMI only: 3840x2160/24p, 3840x2160/25p, 3840x2160/30p, 4096x2160/24p, 1080/24p, 480/60i, 480/60p, 576/50i, 576/50p, 720/60p, 720/50p, 1080/30p, 720/30p, 720/24p, 3840x2160/50p (YCbCr4:2:0 8bit) 3840x2160/60p (YCbCr4:2:0 8bit) HDMI/Component: 1080/60i, 1080/60p, 1080/50i, 1080/50p				
	HDMI auto wake-up	Yes				
	3D	-	-	Active		
	3D glasses	-	-	TDG-BT500A		
Audio specs	Speaker position	Down Firing				
	Audio Power Output	10W+10W				
	Invisible speaker	Yes				
Signage specs	Easy HTML5 Signage embedded	Yes				
	Multicast / IPTV	Yes (UDP/RTP)				
	Compatible content	Customised design, text, pictures, videos, PowerPoint, YouTube, traffic, weather, public information, Facebook, Twitter and more.				
Network specs	Wi-Fi direct	Yes				
	Wi-Fi Certified	Yes				
	DLNA	Yes				
	Miracast (screen mirorring)	Yes				
	Firmware update	Yes (network or USB)				
	Internet Browser	Yes (Opera)				
	Wireless LAN	Integrated				
Convenience features	Twin picture	PAP(2 size)/PIP				
	USB Play (contents)	MPEG1/MPEG2PS/MPEG2TS/AVCHD/MP4Part10/MP4Part2/AVI(XVID)/AVI(MotinJpeg)/MOV/WMV/MKV/WEBM/3GPP/MP3/WMA/WAV/JPEG/MPO/RAW(ARW)				
	On screen clock	Yes				
	Sleep timer	Yes				
	On/Off timer	Yes				
	Google Cast	Yes				
Control specs	Hotel Mode Pro	Yes				
	IP Control	Yes				
	RS-232C Control	Yes (by CBX-H11/1 optional accessory)				
	MHL	Yes (v3)				
	HDCP	2.2				
Inputs and outputs	RF Connection Input(s)	1 (Side)		1 (Bottom)		
	IF (BS/CS) Input(s)	2 (Side)		2 (Bottom)		
	Composite Video Input(s)	2 (1Rear/1Rear Hybrid w/Component)				
	Component Video (Y/Pb/Pr) Input(s)	1 (Rear/Hybrid)				
	SCART (without Smartlink)	1 (Rear)				
	HDMI™ Connection(s) (Total)	4 (4 Side)		4 (2Side/2Bottom)		
	Analog Audio Input(s) (Total)	2 (Rear)				
	Digital Audio Output(s)	1 (Rear)				
	Audio Out	1 (Side/Hybrid w/HP)				
	USB	3				
	Ethernet Connection(s)	1 (Rear)				
	PCMCIA Slot(s)	1 (Up)				
Design features	Finish (Surface Color)	Black				
	Table Top Stand	Included (assembly required)				
	VESA˙ Hole Spacing Compatible	Yes (200 x 300 mm)	Yes (300 x 300 mm)	Yes (300 x 300 mm)	Yes (400 x 300 mm)	
Environment specs	Light Sensor	Yes				
	AC Power Input	1 (Pigtail)				
	Power Consumption (in Standby)	0.5W				
	Power Consumption (in Operation)	72W	84W	115W	149W	230W
	Dynamic Backlight Control	Yes				
	Power Saving Mode / Back Light Off Mode	Yes				
Measurements	Display Only (WxHxD) (Approx.)	96.1x56.8x6.0(2.00) cm	109.3x64.3x6.0(2.00) cm	123.6x72.2x6.0(2.1) cm	145.3x84.4x7.8(1.42) cm	167.5x97.0x7.9(1.44) cm
	Display with Stand (WxHxD) (Approx.)	96.1x60.4x18.9 cm	109.3x67.9x20.1 cm	123.6x75.9x22.2 cm	145.3x89.2x26.5 cm	167.5x101.9x32.3 cm
	Package Carton (WxHxD) (Approx.)	105.9 x 71.7 x 15.8 cm	119,1 x 79,2 x 16,9 cm	133.0 x 83.8 x 16.9 cm	155.3 x 94.3 x 22.4 cm	177.5 x 106.8 x 22.4 cm
Weight	Display Only	11.8 Kg	14.4 Kg	19.9 Kg	24.1 Kg	34.8 Kg
	Display with Stand	12.8 Kg	15.4 Kg	21.0 Kg	25.5 Kg	36.3 Kg
	Package Carton	17.0 Kg	21.0 Kg	28.0 Kg	36.0 kg	49.0 kg
Service and Warranty	Standard Warranty	3 Years with Advanced Exchange				

*1 Please contact your Sony dealer for more information. | *2 +5V source detection. | *3 Bulgarian/Catalan/Czech/Danish/German/Greek/English/Spanish/Estonian/Finnish/French/Hebrew/Croatian/Hungarian/Italian/kazakh/Lithuanian/Latvian/Dutch/Norwegian/Polish/Portuguese/Romanian/Russian/Slovak/Slovenian/Serbian/Swedish/Turkish/Ukrainian.

4K / HD   Optional Accessories

RS-232C/HDMI convertor CBX-H11/1

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

U-Touch overlays*

SU-WL450/PSE Wall Mount

SU-WL500/PSE Wall Mount

* Please contact your Sony dealer for more information
** +5V source detection
*** Typical value of panel spec
**** SU-WL500 wall mount is recommended

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

		FWL-40W705C	FWL-48W705C	FWL-55W805C	FWL-65W855C	FWL-75W855C
Display specifications	Screen size (diagonal)	40''	48''	55''	65''	75''
	Brightness (cd/m²)***	330	330	400	400	400
	Native contrast ratio	5,000:1	5,000:1	4,000:1	4,000:1	4,000:1
	Response time (ms)	6,8	8	6,5	6,5	8
	Dynamic contrast ratio	over 1 million				
	Viewing angle (Right/Left/Up/Down)	178 (89/89/89/89)				
	Display resolution	Full HD				
	Aspect ratio	16:9				
	Portrait (Hardware compatibility)*	-	-	Yes****	Yes****	Yes****
	Portrait mode	No			Yes	
TV System	Tuner	No				
	Android system	No			Yes	
Display features	Dimming type	Frame Dimming				
	Display device	LCD				
	Backlight type	Edge LED			Direct LED	
	Operation time	17/7				
Video specs	Wide Mode	Full/Normal/Wide Zoom/Zoom/Caption/14:9 for Video Normal/Full1/Full2 for PC				
	4:3 Default	Yes				
	Video Processing	X-Reality PRO				
	Motionflow	Motionflow XR 200Hz			Motionflow XR 800Hz	
	Video Signal	1080/24p (HDMI only); 1080/60i; 1080/60p (HDMI/Component); 1080/50i; 1080/50p (HDMI/Component); 480/60i; 480/60p; 576/50i; 576/50p; 720/60p; 576/50p; 1080/30p (HDMI only); 720/30p (HDMI only); 720/24p (HDMI only)				
	HDMI auto wake-up	Yes**				
	3D	-	-		Active	
	3D glasses	-	-		TDG-BT500A	
Audio specs	Speaker position	Down Firing				
	Audio Power Output	5W+5W		10W+10W		
	Invisible speaker	Yes				
Signage specs	Easy HTML5 Signage embedded	Yes				
	Multicast / IPTV	Yes (UDP/RTP)				
	Compatible content	Customised design, text, pictures, videos, PowerPoint, YouTube, traffic, weather, public information, Facebook, Twitter and more.				
Network specs	Wi-Fi direct	Yes				
	Wi-Fi Certified	Yes				
	DLNA	Yes				
	Miracast (screen mirorring)	Yes				
	Firmware update	Yes (network or USB)				
	Internet Browser	Yes (Opera)				
	Wireless LAN	Integrated				
Convenience features	Twin picture	PAP(2 size)/PIP				
	USB Play (contents)	MPEG1/MPEG2PS/MPEG2TS/AVCHD/MP4Part10/MP4Part2/AVI(XVID)/AVI(MotinJpeg)/MOV/WMV/MKV/WEBM/3GPP/MP3/WMA/WAV/JPEG/MPO/RAW(ARW)				
	On screen clock	Yes				
	Sleep timer	Yes				
	On/Off timer	Yes				
	Google Cast	No			Yes	
Control specs	Hotel Mode Pro	Yes				
	IP Control	Yes				
	RS-232C Control	Yes (by CBX-H11/1 optional accessory)		Yes	Yes	Yes
Inputs and outputs	MHL	Yes (v2.1)				
	RF Connection Input(s)	1 (Bottom)				
	IF (BS/CS) Input(s)	2 (Bottom)				
	Composite Video Input(s)	1 (Rear Hybrid w/Component)				
	Component Video (Y/Pb/Pr) Input(s)	1 (Bottom/Hybrid)				
	SCART (without Smartlink)	1 (Rear)				
	PC In (D-Sub)	1				
	HDMI™ Connection(s) (Total)	4 (1Side/3Bottom)			4	
	Analog Audio Input(s) (Total)	2 (Rear)				
	Digital Audio Output(s)	1 (Rear)				
	Audio Out	1 (Side/Hybrid w/HP)				
	USB	2 (Side)			3	
	Ethernet Connection(s)	1 (Rear)				
	PCMCIA Slot(s)	1 (Up)				
Design features	Finish (Surface Color)	Black				
	Table Top Stand	Included (assembly required)				
	VESA' Hole Spacing Compatible	Yes (300 x 200 mm)			Yes (400 x 300 mm)	
Environment specs	Light Sensor	Yes				
	ErP Rank	A+	A++	A+	A+	A+
	AC Power Input	AC Adapter (Inlet C7)			1 (Pigtail)	
	Power Consumption (in Standby)	0.5W	0.5W	0.5W	0.5W	0.5W
	Power Consumption (in Operation)	44W	46W	75W	123W	163W
	Dynamic Backlight Control	Yes				
	Power Saving Mode / Back Light Off Mode	Yes				
Measurements	Display Only (WxHxD) (Approx.)	92.4x54.0x5.7(1.6) cm	108.9x63.2x5.7(1.6) cm	123.0x71.5x6.1(1.38) cm	145.5x84.3x7.8(1.42) cm	167.7x96.9x7.9(1.44) cm
	Display with Stand (WxHxD) (Approx.)	92.4x57.9x17.9 cm	108.9x67.1x19.5 cm	123.0x75.3x21.0 cm	145.5x89.1x26.5 cm	167.7x101.6x33.0 cm
	Package Carton (WxHxD) (Approx.)	102.2 x 64.0 x 15.8 cm	118.7 x 73.2 x 15.8 cm	132.8 x 82.8 x 16.9 cm	155.3 x 94.3 x 22.4 cm	177.5 x 106.8 x 22.4 cm
Weight	Display Only	8.8 Kg	11.3 Kg	17.0 Kg	23.4 Kg	33.7 Kg
	Display with Stand	9.1 Kg	11.7 Kg	18.0 Kg	24.5 Kg	34.9 Kg
	Package Carton	12.0 Kg	16.0 Kg	31.0 Kg	35.0 Kg	47.0 Kg
Service and Warranty	Standard Warranty	3 Years with Advanced Exchange				

*1 Please contact your Sony dealer for more information | *2 +5V source detection

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4K / HD — Service and Support

BRAVIA Professional Displays

Products	Contract Type	Reference	Duration	Services Included				
				Phone Helpdesk	Logistics	Repair	Loan	Swap with New unit
FWD, FW & FWL series	PrimeSupport	Included Service PS.B2B.3	3 years	✓	✓	-	-	✓
	PrimeSupport+	PSP.FWLHD40-55.5	2 years Extension (Total 5 years)FWL HD 40 to 55 inch	✓	✓	-	-	✓
		PSP.FWLHD65-75.5	2 years Extension (Total 5 years)FWL HD 65 to 75 inch	✓	✓	-	-	✓
		PSP.FW4K43-55.5	2 years Extension (Total 5 years)FW 4K 43 to 55 inch	✓	✓	-	-	✓
		PSP.FW4K65-75.5	2 years Extension (Total 5 years)FW 4K 65 to 75 inch	✓	✓	-	-	✓
		PSP.FWD.85.5	2 years Extension (Total 5 years)FWD-85X9600P	✓	✓	-	-	✓

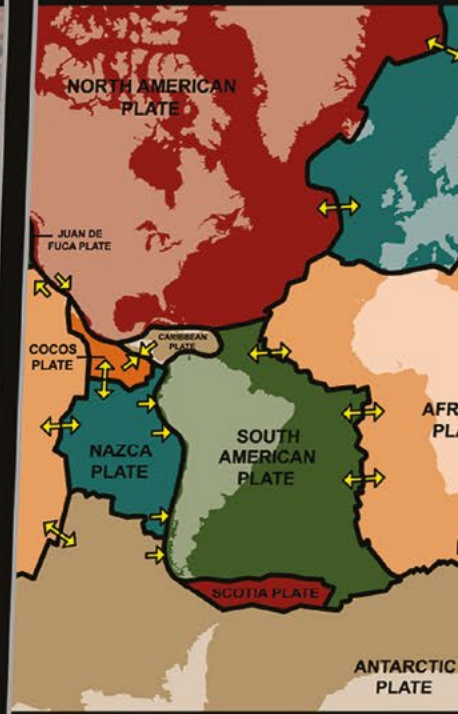**For full product specifications and features please visit**
pro.sony.eu/BRAVIA

Monument Valley Tribal Park

Tectonic Plate Bou[...]

Crystal

Sandstone

Ammonite

Marble

Land's End

NORTH AMERICAN PLATE

JUAN DE FUCA PLATE

COCOS PLATE

CARIBBEAN PLATE

NAZCA PLATE

SOUTH AMERICAN PLATE

AFR[...] PLA[...]

SCOTIA PLATE

ANTARCTIC PLATE

Combine everything
Inspire everyone

Vision Presenter

The PWA-VP100 Vision Presenter 2.1.1 is a complete and intuitive solution for dynamic multi-media presentations. It's the perfect way to enhance audience engagement in business, education and more, bringing your presentations to life.

Create captivating displays
By uniting Sony's powerful projection and camera technology with a simple user interface, presenters can create truly captivating displays. A host of different content sources, from video and live web feeds to PowerPoint slides, can be shown on one screen in a huge variety of layouts.

Show all kinds of content
Vision Presenter can handle virtually all types of content, including 4K video, with simultaneous playback of up to five HD video sources. Connect as many as ten input sources including: cameras, PCs, video conferencing systems, USB flash drives, DVD players, Blu-ray players, PlayStation®4 (PS4™) and other smartphone, tablet or PC devices.

Highlights

• Multiple display variations – single screen, 4K screen, dual screen, triple screen, edge blend

• Content mirroring – preview material on mobile devices; directly connect web content

• Interactive collaboration – invite your audience to share content

• Incorporate video conferencing systems, to include remote audiences and contributors

• Easy operation for presenter or administrator; virtually zero training required
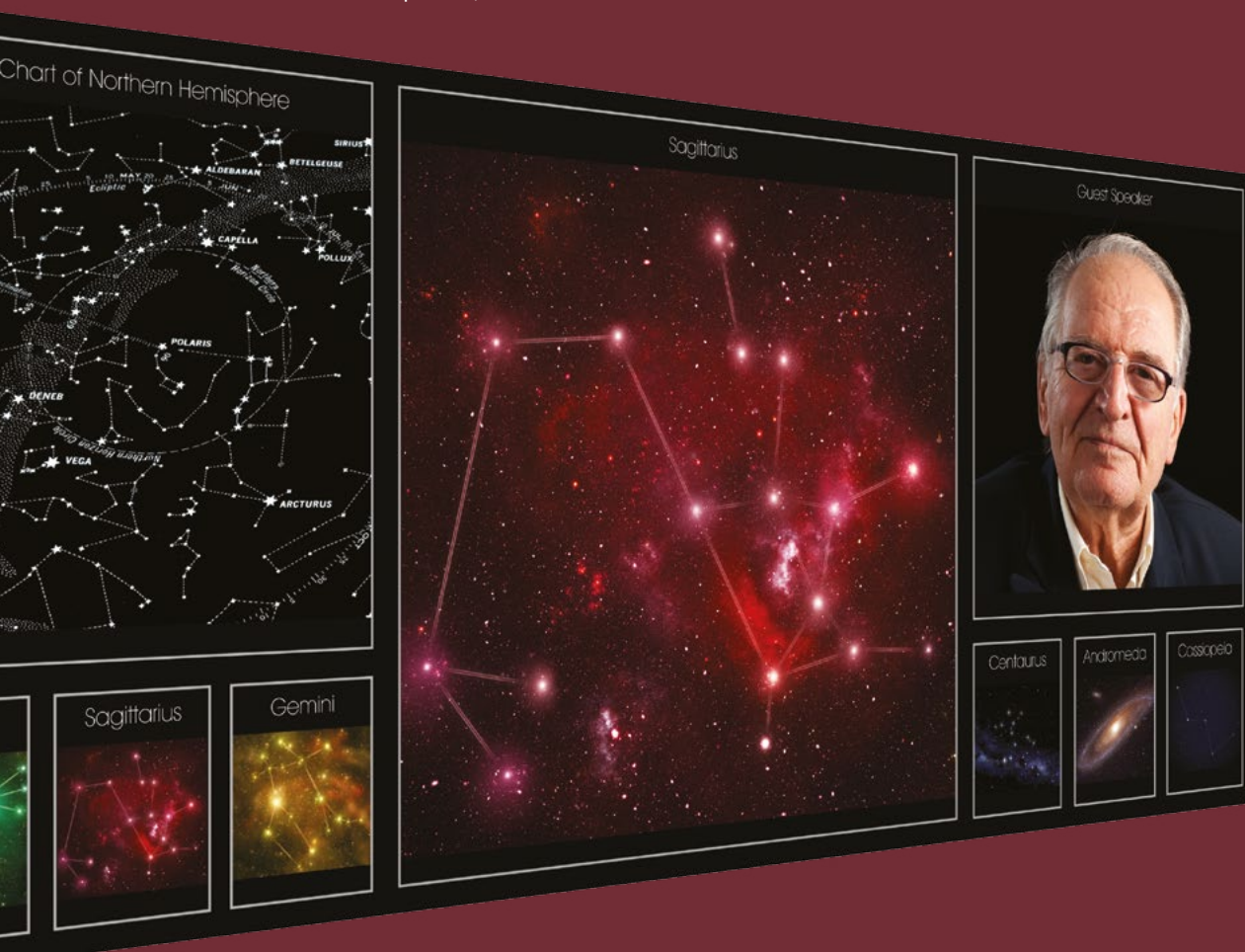
Features	
Number of Simultaneous Video Playback	5 x Full HD
Layout Configuration	Preinstalled layout templates (6 templates for 4K/HD screen, 13 templates for blending projector screen, 11 templates for x2/x3 separate screen)
Playable Content	•Still Image:JPG, GIF, PNG, BMP •Native control movie file:MP4 (H.264/AAC) •Other Document File:PPT, XLS, Word, PDF, WMV, MOV etc •Web:Website, FLASH
Live Video Input	•Capture card (x2) e.g., 3G-SDI (x4) + HDMI (x2) or HDMI (x2) + HDMI (x2) •Wi-Fi Mirroring •Remote Camera (IP) • Supporting HDMI HDCP •Supporting PTZ control
Output*2	•Video:DVI or DisplayPort or HDMI (Up to 4K/60P 8-bit 4:2:0), •Audio:PC Line Out, HDMI Embedded Audio
Video Playback Control	•Still Image Slideshow •Pause/Play •Loop Play
Remote Control	•Mouse (Wired, Wireless) •Tablet Control (Android, iOS) •PC/MAC (Chrome/Safari) •Integrates with third party gesture control or control systems.

Recommended Hardware		
PC	Operating System	MS Windows 8.1 Pro English (64-bit)
	Processor	Intel Core i7-3930K (3.8 GHz, 6 core)
	Memory	16 GB (8 GB x 2) PC3-12800 (1600 MHz)
	Hard Disk Drive	Primary:1 TB HDD (SATA, 7200 rpm) Secondary:1 TB HDD (SATA, 7200 rpm)
	Power Unit	600 W ATX Power Unit
Remote Control	Tablet	Sony:XPERIA Tablet Z Apple:iPad

*1 Installation of Microsoft Office programs are required for native presentation animation support and other office files to be opened.
Alternatively connect presentation PC to HDMI input when either animation is required or native programs to be supported. For better image quality, higher-resolution files are recommended. | *2 Output interface varies by graphic cards.
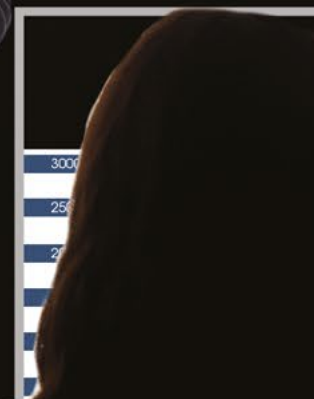
PWA-VP100 — Service and Support

Vision Presenter				Services Included				
Products	Contract Type	Reference	Duration	Phone Helpdesk	Software Download Service	Remote Support	Repair	On-site Engineer
Vision PresenterPWA-VP100	PrimeSupport	Included Service PS.VISIONPRES.1	1 yearSoftware Support	✓	✓	-	-	-
Vision Presenter Kits PWA-VP100K1 PWA-VP100K2 PWA-VP100K3	PrimeSupport+	PSP.VPHPBOSO.3	3 years Software Support Cards for HP Server support	✓	✓	✓	✓	✓
		PSP.VPHPBOSO.5	5 years Software Support Cards for HP Server support	✓	✓	✓	✓	✓

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

3D Plan

A clear vision for collaboration

Visual Communications

Sony's professional video conferencing systems and Full HD visual imaging cameras take your communications to a new level. Unite everyone in your organisation with multi-point virtual meetings, share video, voice and PC presentations, effortlessly, for truly global collaboration.

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 and SRG-300SE)

• 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)

Video Conference

Sony's video conferencing systems empower effective communication for business, distance learning, remote consulting and more. With desktop and portable options, mobile integration and wireless connectivity, they're easy to use and enable sharing of video and PC presentation across multiple sites.

Highlights

• Up to 9-point MCU – connect as many as
  nine conferences with the PCS-XG100H

• Record and stream – share video and
  presentations so more people can benefit

• HD and Full HD options, all with clear,
  sharp audio

• Wireless connectivity (PCS-XC1)

Service and Support

For more information on the service and support available for this range please see page 59.

IPELA

Camera (SRG-120DH)

Image Sensor	1/2.8-type "Exmor" CMOS image sensor
Output Pixels (H x V)	1920 x 1080
Frame Rate	59.94 fps
S/N Ratio	50 dB
Brightness Control	Auto/Manual
Zoom Ratio	x144 zoom (12X optical zoom, 12X digital zoom)
Focusing System	Auto/Manual
Horizontal Viewing Angle	Approx. 71°
Focal Length	f = 3.9 mm to 46.8 mm
F-Number	F1.8 to F2.0
Pan/Tilt Angle	Pan ±100°/Tilt +25°
Preset Position	100 positions
Power Supply	Supplied from View-DR Codec Unit
Other Features	Auto Gain Control, Auto White Balance, Backlight Compensation

Key Features

Data Sharing	PC images up to 1080p resolution is supported (with option)
	Video annotation function
View-DR Function	Yes
Lip Synchronization	AUTO/OFF
Mic Off Function	ON/OFF
Streaming/Recording Feature	HD 720p

Video

Maximum Frame Rate	H.263 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps
	H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps, 1080p 60 fps (with option)
Communication Protocol Standards	H.263, H.263+, H.263++, H.264, H.264 High profile, MPEG-4 SP@L3
Resolution	4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576)
	16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080p (1920 x 1080) (with option)
Bit Rate	64 kbps to 4,096 kbps
Screen Layout	Full Screen, PinP, PandP, SideBySide, PandPandP

Audio

Bandwidth and Coding	MPEG-4 AAC Mono: 11 kHz at 64 kbps, 96 kbps / MPEG-4 AAC Mono: 22 kHz at 64 kbps, 96 kbps / G.711: 3.4 kHz at 56 kbps, 64 kbps G.722: 7.0 kHz at 48 kbps, 56 kbps, 64 kbps / G.728: 3.4 kHz at 16 kbps
Other Features	Monaural echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction

Network

Protocols	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP
QoS (Quality of Service)	Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), IP Precedence, DiffServe
Other Network Features	Packet reordering, TCP/UDP port setting, NAT, PPPoE, UDP shaping, Encryption, Auto gatekeeper discovery, UPnP, URI Dialing, IPv6

Interface

Video Input	External video input (HDMI x 1)
Video Output	HDMI x 1
Control Input	mini USB x1
Audio Input	External analog microphone input Mini-jack (Plug in power) x 1
Audio Output	HDMI (video, audio) x 1
Network Port	10BASE-T/100BASE-TX/1000BASE-T x 1
USB Slots	2 (Pen Tablet, USB Memory)
Maintenance Interface	-

Standard

Communication Protocol Standards	ITU-T H.323, IETF SIP
ITU-T (excluding audio/ video standards)	H.245, H.460.18, H.460.19
IETF	RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, RFC3984, RFC4573, RFC4587, RFC4629, RFC4856, RFC4628, RFC5168
Encryption	H.235 ver.3, H.241, H.243
Far End Camera Control	H.281
Frame Format	H.225.0
Dual Stream	H.239 (video and presentation data)

General

Power Requirements	DC 19.5 V (AC Adapter : AC 100 V to 240 V, 50/60 Hz)
Power Consumption	26 W (typical)
Power Consumption (Standby)	TBD
Operating Temperature	5°C to 35°C / 41°F to 95°F
Storage Temperature	-20°C to +60°C / -4°F to +140°F
Operating Humidity	20% to 80% (no condensation)
Storage Humidity	20% to 80% (no condensation)
Dimensions (W x H x D)	Approx. 206 x 174 x 152 mm
Mass	Approx. 1.8kg
Supplied Accessories	PCS-A1 microphones (1), AC adapter (1), HDMI cable (3m) (1), RF Remote Commander Unit (1), Before using this unit Installation Guide (1), Warranty booklet (1)

PCS-XC1

PCS-A1
Omnidirectional
Microphone

Optional Accessories

PCS-MEP
IPELA Communication Mobile app for Android,
iPhone®, iPad®, iPad Air™ and iPad mini™

Optional Licenses

PCSA-RXC1
Full HD update

PCSA-WXC1
WiFi update

For full product specifications and features please visit
pro.sony.eu/visual-comms

Camera (SRG-120DH)

	PCS-XG100H	PCS-XG77H
Image Sensor	1/2.8-type "Exmor" CMOS image sensor	
Image Sensor (Number of effective pixels)	Approx. 2.1 Megapixels	
Output Pixels (H x V)	1920 x 1080	
Frame Rate	59.94 fps	
S/N Ratio	50 dB	
Brightness Control	Auto/Manual	
Zoom Ratio	x144 zoom (12X optical zoom, 12X digital zoom)	
Focusing System	Auto/Manual	
Horizontal Viewing Angle	Approx. 71°	
Focal Length	f = 3.9 mm to 46.8 mm	
F-Number	F1.8 to F2.0	
Pan/Tilt Angle	Pan ±100°/Tilt +25°	
Preset Position	16 positions	
Power Supply	Supplied from Codec Unit	
Other Features	Auto Gain Control, View-DR, XDNR, Backlight Compensation	

Key Features

	PCS-XG100H	PCS-XG77H
Multipoint Capability	Up to 6 sites (H.320/H.323) with optional software PCSA-MCG106. Up to 9 sites (H323) with optional software PCSA-MCG109. 10 to 16 sites requires two PCS-XG100S units cascaded with optional software (10 sites with H.320) (16 sites with H.323)	–
Data Sharing	PC images up to 1080p resolution is supported	PC images up to 1080p resolution is supported with optional license (SXGA standard)
	Video annotation function	
Lip Synchronization	AUTO/OFF	
Mic Off Function	ON/OFF	
Streaming/Recording Feature	HD 720p	

Video

	PCS-XG100H	PCS-XG77H
Maximum Frame Rate	H.261 QCIF 30 fps, CIF 30 fps, H.263 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps	
	H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps, 1080p 60 fps	H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps
Communication Protocol Standards	H.261*1, H.263, H.263+, H.263++, H.264, H.264 High profile, MPEG-4 SP@L3	
Resolution	4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576)	
	16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080p (1920 x 1080)	16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080p (1920 x 1080) with software option
Bit Rate	64 kbps to 16,000 kbps	64 kbps to 4,096 kbps
Screen Layout	Full Screen, PinP, PandP, SideBySide, PandPandP	

Audio

	PCS-XG100H	PCS-XG77H
Bandwidth and Coding	MPEG-4 AAC Stereo: 22 kHz at 192 kbps (IP only) MPEG-4 AAC Mono: 14 kHz at 48 kbps, 64 kbps, 96 kbps MPEG-4 AAC Mono: 22 kHz at 64 kbps, 96 kbps (IP only) G.711: 3.4 kHz at 56 kbps, 64 kbps G.722: 7.0 kHz at 48 kbps, 56 kbps, 64 kbps G.728: 3.4 kHz at 16 kbps	
Other Features	Stereo echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction	

*1 H.261 in H.323 will be available as V2.0

Network

	PCS-XG100H	PCS-XG77H
Protocols	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP	
QoS (Quality of Service)	Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), IP Precedence, DiffServe	
Other Network Features	Packet reordering, TCP/UDP port setting, NAT, PPPoE, UDP shaping, Encryption, Auto gatekeeper discovery, UPnP, URI Dialing, IPv6	

Interface

	PCS-XG100H	PCS-XG77H
Video Input	External video inputs (HDMI x 1, DVI-I x 2)	External video inputs (DVI-I x 2)
Video Output	HDMI x 2, DVI-I x 1	HDMI x 1, DVI-I x 1
Control Input	RS-232C x 1	
Audio Input	External analog microphone input Mini-jack (Plug in power) x 6 (L/R)	
	HDMI (video, audio) x 1	–
	Audio Input (MIC/AUX) x 2 (Phono jack, stereo)	
Audio Output	HDMI (video, audio) x 1, Line Output (Phono jack, stereo) x 1, REC Output (Phono jack, stereo) x 1	
Network Port	10BASE-T/100BASE-TX/1000BASE-T x 2, ISDN Unit Interface x 1	10BASE-T/100BASE-TX/1000BASE-T x 1, ISDN Unit Interface x 1
USB Slots	2 (Pen Tablet, USB Memory)	
Maintenance Interface	RS-232C x 1	

Standard

	PCS-XG100H	PCS-XG77H
Communication Protocol Standards	ITU-T H.320*1, H.323, IETF SIP	
ITU-T (excluding audio/video standards)	H.231, H.241 H.242, H.243, H.245, H.350, H.460.18, H.460.19	
IETF	RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, RFC3984, RFC4573, RFC4587, RFC4629, RFC4856, RFC4628, RFC5168	
Encryption	H.233, H.234, H.235 ver.3	
Far End Camera Control	H.224, H.281	
Frame Format	H.221, BONDING, H.225.0	
Dual Stream	H.239 (video and presentation data)	

General

	PCS-XG100H	PCS-XG77H
Power Requirements	DC 19.5 V (AC Adapter : AC 100 V to 240 V, 50/60 Hz)	
Power Consumption	58.5W	
Power Consumption (Standby)	23.4W	
Operating Temperature	5°C to 35°C / 41°F to 95°F	
Storage Temperature	-20°C to +60°C / -4°F to +140°F	
Operating Humidity	20% to 80% (no condensation)	
Storage Humidity	20% to 80% (no condensation)	
Dimensions (W x H x D)	Codec: Approx. 370 x 60 x 244 mm (excluding protrusions) Camera unit (SRG-120DH): Approx. 153 × 156 × 153 mm (excluding protrusions)	
Mass	Codec: Approx. 2.3 kg	
	Camera Unit (SRG-120DH) (not optional only in "H" verson): Approx. 1.45 kg (3 lb 1 oz)	
Supplied Accessories	PCS-A1 microphones (2) (PCS-XG100H), PCS-A1 microphones (1) (PCS-XG77H), AC adapter (1), HDMI cable (3m) (1), RF Remote Commander Unit (1), Batteries for Remote Commander unit (2), CD-ROM (Operating instructions, Before using this unit, Quick connection guide) (1), Before using this unit (1), Installation Guide (1), Quick connection guide (1), Warranty booklet (1), Camera cable (3m) for HD camera (1)	

PCS-XG100H / PCS-XG77H | Optional Accessories

PCS-A1
Omnidirectional Microphone

SRG-300H
1080p/60 HD Pan/Tilt/Zoom Camera

PCSA-B384S
3-line ISDN unit (up to 6B channels)

PCSA-B768S
6-line ISDN unit (up to 12B channels)

PCS-MEP
IPELA Communication Mobile app

Optional Licenses

PCSA-MCG106 6 site internal MCU for XG100/77

PCSA-MCG109 9 site internal MCU for XG100

PCSA-RXG77 HD update for XG77

PCSA-SAG1/8 License update for MEP client connection

For full product specifications and features please visit
pro.sony.eu/visual-comms

General	
Power Requirements	DC 12V (AC Adapter : AC 100V to 240V, 50/60Hz)
Power Consumption	13 Watts
Operating Temperature	5 C to 35 C 41 F to 95 F
Storage Temperature	-20 C to + 60 C -4 F to +140 F
Operating Humidity	20% to 80% (no condensation)
Storage Humidity	20% to 80% (no condensation)
Dimensions (W x H x D)	Approx. 170 x 44 x 125 mm (excluding protrusions)
Mass	Approx. 0.65 kg
Formats	
Communication Protocol	ITU-T H.323
Video Encoding	H.263, H.263+, H.263++, H.264 Baseline Profile, H.264 High Profile
Audio Encoding	G.711 (3.4kHz@56/64kbps), G.722 (7.0kHz@48/56/64kbps), G.728 (3.4kHz@16kbps), MPEG-4 AAC-LC Mono (14kHz@64/96kbps)[*1], MPEG-4 AAC-LC Mono (22kHz@64/96kbps)[*2]
Frame Format	H.225
Dual Stream	H.239 (video and presentation data) (transmission and reception)
Encryption	H.235 version 3
Other	H.460.18, H.460.19
Video and Audio	
Video Codec – Resolution	[4:3] QCIF (176x144), CIF (352x288), 4CIF (704x576) [16:9] WCIF (W288p) (512x288), W432p (768x432), W4CIF (1024x576), 720p (1280x720), 1080p (1920x1080)
Video Codec – Frame Rate	Up to 60fps (H.264@720p, H.264@1080p) Up to 30fps (H.264, H.263, H.263+, H.263++, except for H.263 4CIF)
Screen Layout	3 screens, 4 screens, 6 screens, 9 screens, 10 screens, 13 screens, 16 screens
Communication Parameter Settings	YES (Auto / Manual) (Resolution, Bitrate, Frame Rate)
Multi-stream Transmission/ Reception	YES (A/V only) 3 streams (2x video + 1x PC)
Audio Channel	Mono
Mic ON/OFF	NO
Network and Multipoint	
Network Protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP, PPPoE, UPnP
QoS (Quality of Service)	Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), Adaptive FEC (Forward Error Correction), IP Precedence, DiffServe
Network Function	UDP Shaping, TCP/UDP Port Setting, NAT Support, Auto Gatekeeper Discovery, URI Dialing, IPv6
Protocol Stack	IPv4, IPv6
Bitrate	64 kbps to 16,000 kbps
H.239 Presentation	YES
Multipoint Capability	Up to 4 terminals (H.323) as standard Up to 10 terminals (H.323) with optional software PCSA-MPE1 Up to 16 terminals (H.323) with optional software PCSA-MPE1 and PCSA-MPE2
Interfaces	
Network Interface	Gigabit Ethernet (10BASE-T/100BASE-TX/1000BASE-T) x 2
External Control	YES (mini-USB typed terminal)[*3].
Other	USB x 1 Kensington Security Slot x 1
Language	
Language on web UI	English, Japanese, Chinese

*1 : In the case that the echo canceller is activated. | *2 : In the case that the echo canceller is deactivated | *3 : the mini-USB typed terminal is NOT compliant with USB

For full product specifications and features please visit
pro.sony.eu/visual-comms

Camera	
Image Sensor	1/2.8 Exmor CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
Signal System	1080/59.94p,50p,29.97p,25p 1080/59.94i,50i 720/59.94p,50p,29.97p,25p
Minimum Illumination (50IRE)	1.4 lx (50IRE, F1.6, 30 fps)
S/N Ratio	50 dB
Gain	Auto/Manual (0 to +43 dB)
Shutter Speed	1/1 to 1/10000 sec (59.94 Hz system)
	1/1 to 1/10000 sec (50 Hz system)
Exposure Control	Auto, Manual, Priority AE (Shutter,Iris), Exposure compensation, Bright
White Balance	Auto, Indoor, Outdoor, One-push auto, ATW, Manual
Optical Zoom	30x
Digital Zoom	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	63.7 degree (Wide)
Focal Length	f=4.3 mm (Wide) to 129 mm (Tele)
	F1.6 to 4.7
Minimum Object Distance	10 mm (Wide) ~ 1200 mm (Tele)
Pan/Tilt Angle	Pan: ±170° Tilt: +90°/-20°
Pan/Tilt Speed (Max.)	Pan: 100°/sec Tilt: 90°/sec
Preset Position	256

Camera features	
Day/Night ICR	Yes
Wide-D	Yes (View-DR)
Noise Reduction	Yes
Image Stabilizer	Yes
Image Flip	Yes
Superimpose Number	3 independant positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independant position for a log mark
Superimpose Langugae	English
Menu Langugae	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
Smartphone Viewer	Yes

Video	
Resolution	1920 x 1080, 1280, 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG)
Compression Format	H.264, JPEG
Maximum Frame Rate	H.264: 60 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	64 Kbps to 32 Mbps

Image Cropping	No
Solid PTZ	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JEPG
Muti Streaming Capability	Triple Streaming
Number of Clients	20

Audio	
Compression Format	AAC-LC (64kbps/128bps)

System Requirements	
Operating System	Mac OS (Plug-in free viewer only), Andriod/iOS (Smart phone viewer only), Windows Vista (32 bit) Ultimate (Business Edition), Windows 7 (32/64 bit) Ultimate (Professional Edition), Windows 8 Pro (32/64 bit), Microsoft DirectX 9.0 <
Processor	Intel Corei7 2.8 GHz <
Memory	2 GB<
Web Browser	Microsoft Internet Exlorer Ver. 8.0, 9.0, 10.0, 11.0. Firefox Ver. 19.02 (Plug-in free viewer only). Safari Ver. 5.1 (Plug-in free viewer only). Google Chrome Ver. 25.0 (Plug-in free viewer only).

Network	
Protocols	IPc4, TCP, UDP, ARP, ICMP, IGMP. HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, IPv6, HTTPS, SNMP (v1, V2c, V3), SSL
QoS	DiffServ(DSCP)
Multicast Streaming Support	Yes
ONVIF Conformance	No
Wireless Network	No
Authentication	IEEE802.1X

Interface	
HD Video Output	3G-SDI
SD Video Output	-
MIC Input	Mini Jack (Monoral): 2.5 V DC plug-in power
Line Input	RCA (Monoral)
Network Port	10BASE-T / 100BASE-TX (RJ-45)
Serial Interface	RS-422

General	
Power Requirements	DC 12 V (DC 10.8 ~ 13.2 V)
Power Consumption	16.8 W
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)	157 x 164 x 163 mm (6 1/4 × 6 1/2 × 6 1/2 inches)
Mass	1.4 kg (3 lb 1.4 oz)
Body Colour	White/Black
Wide Conversion Lens Attachable	No
Mountable Angle	<±15°
Ceiling Mount	Yes
Supplied Accessories	AC power adaptor (1) AC power cable (1) RS-422 connector plug (1) Ceiling bracket (2) Wire rope (1) Screw M3×8 (8)

For full product specifications and features please visit
pro.sony.eu/visual-comms

Camera	
Image Sensor	1/2.8 Exmor CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
Signal System - HD	1080/59.94p,50p 1080/59.94i,50i 720/59.94p,50p
Signal System - SD	-
Minimum Illumination (50 IRE)	High Sensitivity mode: 0.35 lx (50IRE, F1.6, 30fps) Normal mode : 1.4 lx (50IRE, F1.6, 30fps)
S/N Ratio	50 dB
Gain	Auto/Manual (0 to +43 dB)
TV Line	1,000 (center)
Auto IR cut filter	Auto, Manual, Timer,Sensor input Near-IR compensation on/off
Shutter Speed	1/1 to 1/10000
Exposure Control	Auto, Manual, Priority AE (Shutter,Iris), Exposure compensation, Blight
White Balance	Auto1/Auto2/Indoor/Outdoor/One-push/Manual
Optical Zoom	30x
Digital Zoom	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	2.9° (Tele)- 65° (Wide, normal mode) / 63.7° (Wide, low latency mode)
Focal Length	f=4.3 to 129.0 mm
	F1.6 to 4.7
Minimum Object Distance	10 mm (Wide end), 1200 mm (Tele end)
Pan/Tilt Angle	Pan: ±170°, Tilt: +90°/-30°
Preset Position	256
Sync system	INT
Camera Control - IR	Yes
Camera Control - Interface	RS-422/RJ-45
Camera Control - Protocol	VISCA (RS-422, IP)/CGI (RJ-45)/S700PTP

Audio	
Audio - Channel	2ch (stereo)
Audio - Codec	AAC LC
Audio setting option	Auto level control (ALC) On/OFF Simplified equalizer
Audio - Sampling frequency	48kHz
Audio - Embedded in Baseband video	Yes (3G-SDI, HDMI)
Audio - Embedded in IP streaming	Yes

Interface	
HD Video Output	3G-SDI, HDMI
SD Video Output	-
MIC Input	Mini-phone (3.5)×2 (MIC/Line) (selectable)

General	
Power Requirements	DC 12V (DC 10.8 ~ 13.2V)
PoE	PoE+
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Dimensions (W x H x D)	159 x 187.5 x 200.5mm (6 3/8 x 7 1/2 x 8 inches)
Mass	Approx. 2.1 kg (4 lb 10 oz)
Body Color	White with black

IP streaming	
Resolution	1920 x 1080, 1280 x 720, 960 x 540 (H.264)
Compression Format	H.264 (High Profile)
Maximum Frame Rate	H.264: 60 fps (1920 x 1080)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	512Kbps~32 Mbps
Adaptive Rate Control	H.264
Multi Streaming Capability	3
Maximum Number of Clients	5
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, HTTPS, SNMP, SSL, VISCA over IP
Supplied Accessories	IR remote commander (1), AC power adaptor (1); Ceiling bracket (2), Wire rope(1), HDMI cable retainer(1), Screw M3 x 8(9), Screw M2.6x6(1)

SRG-360SHE — Optional Accessories

PCS-A1
Omnidirectional
Microphone

SCA-M30
Ceiling microphone
for IP security cameras

RM-BR300
Remote control
unit for BRC and SRG
series cameras

RM-IP10
IP remote control
panel for BRC and SRG
series cameras

For full product specifications and features please visit
pro.sony.eu/visual-comms

Camera	
Image Sensor	1/2.8 Exmor CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
Signal System	1080/59.94p,50p,29.97p,25p 1080/59.94i,50i 720/59.94p,50p,29.97p,25p
Minimum Illumination (50IRE)	1.4 lx (50IRE, F1.6, 30 fps)
S/N Ratio	50 dB
Gain	Auto/Manual (0 to +43 dB)
Shutter Speed	1/1 to 1/10000 sec (59.94 Hz system)
	1/1 to 1/10000 sec (50 Hz system)
Exposure Control	Auto, Manual, Priority AE (Shutter,Iris), Exposure compensation, Bright
White Balance	Auto, Indoor, Outdoor, One-push auto, ATW, Manual
Optical Zoom	30x
Digital Zoom	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	65 degree (Wide)
Focal Length	f=4.3 mm (Wide) to 129 mm (Tele)
	F1.6 to 4.7
Minimum Object Distance	10 mm (Wide) ~ 1200 mm (Tele)
Pan/Tilt Angle	Pan: ±170° Tilt: +90°/-20°
Pan/Tilt Speed (Max.)	Pan: 100°/sec Tilt: 90°/sec
Preset Position	16[*1]

Camera features	
Auto ICR	Yes
Wide-D	Yes
Image Stabilizer	Yes
Image Flip	Yes
Auto Power Off	No
Night Power Off	No

Interface	
HD Video Output	HDMI
SD Video Output	-
Camera Control Interface	RS-232/RS-422/RJ-45
Sync. System	INT

General	
Power Requirements	DC 12 V (DC 10.8 ~ 13.2 V)
Power Consumption	16.8 W
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)	157 x 164 x 163 mm (6 1/4 × 6 1/2 × 6 1/2 inches)
Mass	1.4 kg (3 lb 1.4 oz)
Body Colour	White/Black
Wide Conversion Lens Attachable	No
Mountable Angle	<±15°
Ceiling Mount	Yes
Supplied Accessories	AC power adaptor (1) AC power cable (1) IR remote commander unit (1) CD-ROM (Operating instructions) (1) RS-422 connector plug (1) Ceiling bracket (2) Wire rope (1) Screw M3×8 (8)

*1 Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander.

SRG-300H — Optional Accessories

RC4 Remote
Digital PTZ Camera Extension Solution for RS-232 control; HDMI or DVI

RC5 Remote
Digital PTZ Camera Extension Solution for Ethernet control

RM-BR300
Remote control unit for BRC and SRG series cameras

RM-IP10
IP remote control panel for BRC and SRG series cameras

For full product specifications and features please visit
pro.sony.eu/visual-comms

Camera	
Image Sensor	1/2.8 Exmor CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
Signal System	1080/59.94p,50p,29.97p,25p 1080/59.94i,50i 720/59.94p,50p,29.97p,25p
Minimum Illumination (50IRE)	1.8 lx (50IRE, F1.8, 30 fps)
S/N Ratio	50 dB
Gain	Auto/Manual (0 to +43 dB)
Shutter Speed	1/1 to 1/10000 sec (59.94 Hz system)
	1/1 to 1/10000 sec (50 Hz system)
Exposure Control	Auto, Manual, Priority AE (Shutter,Iris), Exposure compensation, Bright
White Balance	Auto, Indoor, Outdoor, One-push auto, ATW, Manual
Optical Zoom	12x
Digital Zoom	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	71 degree (Wide)
Focal Length	f=3.9 mm (Wide) to 46.8 mm (Tele)
	F1.8 to 2.0
Minimum Object Distance	10 mm (Wide) ~ 1500 mm (Tele)
Pan/Tilt Angle	Pan: ±100° Tilt: ±25°
Pan/Tilt Speed (Max.)	Pan: 300°/sec Tilt: 126°/sec
Preset Position	16[*1]
Camera features	
Auto ICR	No
Wide-D	Yes
Image Stabilizer	No
Image Flip	No
Auto Power Off	No
Night Power Off	No
Interface	
HD Video Output	HDMI
SD Video Output	-
Camera Control Interface	RS-232/RJ-45
Sync. System	INT
General	
Power Requirements	DC 12 V (DC 10.8 ~ 13.2 V)
Power Consumption	16.8 W
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)	153 × 156 × 153 mm (6 1/8 x 6 1/4 x 6 1/8 inches)
Mass	1.45 kg (3 lb 3.1 oz)
Body Colour	Silver
Wide Conversion Lens Attachable	No
Mountable Angle	<±15°
Ceiling Mount	No
Supplied Accessories	AC power adaptor (1) AC power cable (1) IR remote commander unit (1) [*1] Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. CD-ROM (Operating instructions) (1)

[*1] Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander.

SRG-120DH | **Optional Accessories**

RC4 Remote
Digital PTZ Camera Extension Solution for RS-232 control; HDMI or DVI

RC5 Remote
Digital PTZ Camera Extension Solution for Ethernet control

RM-BR300
Remote control unit for BRC and SRG series cameras

RM-IP10
IP remote control panel for BRC and SRG series cameras

For full product specifications and features please visit
pro.sony.eu/visual-comms

Visual Imaging Cameras — SRG-120DU

Camera	
Image Sensor	1/2.8 Exmor CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
Signal System	29.97p,25,1080/59.94i,50i 720/59.94p,50p,29.97p,25p
Minimum Illumination (50IRE)	1.8 lx (50IRE, F1.8, 30 fps)
S/N Ratio	50 dB
Gain	Auto/Manual (0 to +43 dB)
Shutter Speed	1/1 to 1/10000 sec (59.94 Hz system)
	1/1 to 1/10000 sec (50 Hz system)
Exposure Control	Auto, Manual, Priority AE (Shutter,Iris), Exposure compensation, Bright
White Balance	Auto, Indoor, Outdoor, One-push auto, ATW, Manual
Optical Zoom	12x
Digital Zoom	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	71 degree (Wide)
Focal Length	f=3.9 mm (Wide) to 46.8 mm (Tele)
	F1.8 to 2.0
Minimum Object Distance	10 mm (Wide) ~ 1500 mm (Tele)
Pan/Tilt Angle	Pan: ±100° Tilt: ±25°
Pan/Tilt Speed (Max.)	Pan: 300°/sec Tilt: 126°/sec
Preset Position	16*[1]

Camera features	
Auto ICR	No
Wide-D	Yes
Image Stabilizer	No
Image Flip	No
Auto Power Off	No
Night Power Off	No

Interface	
HD Video Output	USB3.0*[2]
SD Video Output	-
Camera Control Interface	RS-232/RJ-45
Sync. System	INT

General	
Power Requirements	DC 12 V (DC 10.8 ~ 13.2 V)
Power Consumption	16.8 W
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)	153 × 156 × 153 mm (6 1/8 x 6 1/4 x 6 1/8 inches)
Mass	1.45 kg (3 lb 3.1 oz)
Body Colour	Silver
Wide Conversion Lens Attachable	No
Mountable Angle	<±15°
Ceiling Mount	No
Supplied Accessories	AC power adaptor (1) AC power cable (1) IR remote commander unit (1) *[1] Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. CD-ROM (Operating instructions) (1)

*1 Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. | *2 Feb16 USB2.0 and Visca control over USB connection.

Visual Imaging Cameras — EVI-D90

Image Sensor	1/4-type EXview HAD CCD	Pan/Tilt - Angle - Pan	±170°
Signal system - SD	NTSC/PAL	Pan/Tilt - Angle - Tilt	+90°/-20°
Lens - Focal length	f=3.5 mm (wide) to 98.0 mm (tele) F1.35 to F3.7	Pan/Tilt - Max. speed - Pan	100°/sec
Lens - Optical zoom	28x	Pan/Tilt - Max. speed - Tilt	90°/sec
Lens - Digital zoom	12x	Preset positions	6
Min. object distance	10 mm (wide) - 1,500 mm (tele) *Default: 300 mm	Video output - SD	VBS, Y/C
Horizontal viewing angle	55.8 degrees (wide) to 2.1 degrees (tele)	Camera control - Interface	RS-232C/RS-422
Focus systems	Auto, One-push AF, Manual, Infinity	Camera control - Protocol	VISCA
Min. illumination	0.65 lx (F1.35, 50 IRE)	Power requirements	DC 12 V
Shutter speed	1 to 1/10,000 s	Power consumption	8 W
Gain	Auto/Manual/Max. AE Gain Limit (-3 to 28 dB, 2 dB steps)	Operating temperature	0°C to 40°C (32°F to 104°F)
White balance	Auto, Indoor, Outdoor, One-push, Manual	Storage temperature	-20°C to +60°C (-4°F to +140°F)
Wide-D	Yes	Mass	1,460 g (3 lb 3 oz)
Exposure control	Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow Shutter AE	Dimensions (W x H x D)	145 x 164 x 164 mm (5 3/4 x 6 1/2 x 6 1/2 inches)
Auto ICR	Yes	Body colour	Black, White
S/N ratio	More than 50 dB (3D Noise Reduction)	Supplied Accessories	AC adaptor (1), AC power cable (1), IR remote commander unit (1), Ceiling bracket (1),Operating instructions (1), RS-422 connector plug (1)

For full product specifications and features please visit

pro.sony.eu/visual-comms

Incredible 4K detail
for simulation and
visualisation

Visual Simulation and
Visual Entertaintment

Every projector in our simulation and visualisation line-up delivers stunning 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 more information on the service and support available for this range please see page 59.

VPL-GTZ1

Professional 4K SXRD projectors for visualisation and simulation

Combining the best Sony technologies, the VPL-GTZ1 is a 4K Ultra-Short Throw projector with a laser light source for 20,000 hours of high performance, virtually zero maintenance without the need for a lamp exchange. At 2,000 lumens brightness, it's perfect for museums, design simulation, industry, education, business and can be used to create stunning video walls.

- Detail-packed 4K image quality
- Projected image size: 66" to 147"
- No lamp: 20,000 hours virtually zero maintenance requirements
- Quick on/off
- Floor standing or ceiling mount with front and rear projection
- 'Blend in' design to suit any environment

Przód Jednostka: mm (cale) Góra

1250 (49¹/₄)
265 (10¹/₂)
535 (21¹/₈)
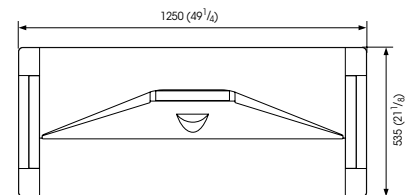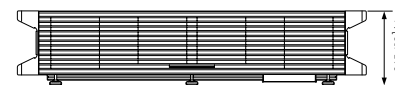
HDMI · TRILUMINOS DISPLAY · 24P TRUE CINEMA · 4K · SXRD · DFI Dark Frame Insertion Motionflow · 3D World Created by Sony

		Projector (VPL-GTZ1)
Display System		SXRD panel, projection system
Display device		SXRD 0.74" (18.8 mm) × 3
	Number of pixels	26,542,080 (4096 x 2160 x 3) pixels
Projection lens	Zoom	Powered (Approx. ×1.6)
	Focus	Powered
	Corner correction adjustment	Powered
	Throw Ratio	0.16:1 to 0.25:1
Light source		Laser diode
Projection image size		66" to 147" (1,676 mm to 3,734 mm)
Light output		2000 lm
Color light output		2000 lm
Contrast ratio		∞:1 (dynamic contrast)
Accepted digital signals*1		VGA, SVGA, XGA, WXGA(1280x768), Quad-VGA, SXGA, SXGA+, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p, 3840x2160/24p, 3840x2160/25p, 3840x2160/30p, 3840x2160/50p*2, 3840x2160/60p*2, 4096x2160/24p, 4096x2160/25p, 4096x2160/30p, 4096x2160/50p*2, 4096 x 2160/60p*2
Inputs/Outputs (Video/Audio/Control)	HDMI Inputs	4
	REMOTE	RS-232C, D-sub 9-pin
	LAN	RJ45, 10BASE-T/100BASE-TX
	IR IN	Mini Jack
	USB	Type A, DC 5 V, Max. 500 mA
Operating temperature (Operating humidity)		5°C to 35°C (41°F to 95°F) (35% to 85% (no condensation))
Storage temperature (Storage humidity)		−20°C to +60°C (−4°F to +140°F) (10% to 90% (no condensation))
Power requirements		AC 100 V to 240 V, 5.9 A to 2.5 A, 50/60 Hz
Power consumption		520 W
Standby mode power consumption		0.5 W
Acoustic noise		26 dB
Dimensions (W×H×D)		1,250 mm × 265 mm × 535 mm (49.2 inches × 10.4 inches × 21.1 inches) 1,100 mm × 265 mm × 535 mm (43.3 inches × 10.4 inches × 21.1 inches) (without handle)
Mass		55 kg (121 lb)
Optional accessories		Active 3D Glasses: TDG-BT500A

*1 60p,30p,24p include 59.94/60Hz, 29.97Hz/30Hz, 23.98Hz/24Hz | *2 YCbCr 4:2:0 / 8 bit format signal
Design of this unit is subject to change without notice.

Ten projektor jest zaliczony do KLASY 2 SPRZĘTU LASEROWEGO. (Promieniowanie lasera IEC60825-1:2007)

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT   IEC60825-1:2007
LASERSTRÅLNING
TITTA INTE I STRÅLEN
LASERPRODUKT KLASS 2   WAVE LENGTH :455–470nm MAX OUTPUT < 20mW
                        VÅGLÄNGD :455–470nm MAX UTEFFEKT < 20mW
                        JIS C6802:2005

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

SRX-T615

SRX-T series for professional and industrial visualisation

- Detail with true 4K SXRD picture quality
- Best in class 12,000:1 contrast ratio and 18,000 centre lumens combined
- Efficient, easy to handle HPM multi-lamp array
- Interleaved lamp control for longer life
- Lamp fail-safe for resilient operation
- Easy-on-the-eye 3D
- Create super-sized images with edge blending
- Flexible throw distance with interchangeable lens

	Projector (SRX-T615)
Resolution	4096 x 2160
Display device	3 x 1.48" 4K SXRD
Brightness	18,000 Centre lumens
Contrast ratio	12,000:1
Lamp technology	6 x HMP lamp 450W/330W

SRX-T423

- Detailed with true 4K SXRD picture quality.
- 23,000 centre lumens and 3,000:1 contrast ratio combined.
- High brightness projection in dual projection 4K 3D.
- Flexible throw distance with interchangeable lens.
- Better light output efficiency for high brightness mode with 4.2KW lamps.

	Projector (SRX-T423)
Resolution	4096 x 2160
Display device	3 x 1.48" 4K SXRD
Brightness	23,000 center lumens (Normal mode) 30,000 center lumens (High brightness mode)
Contrast ratio	3,000:1
Lamp technology	4KW Xenon lamp

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

VPL-GT100

VPL-GT100 is a compact professional 4K SXRD projector with 2,000 lumens brightness, ideal for simulation. It features a dual display port input for outstanding native 4096 x 2160 resolution at 60 frames per second, while Sony's latest generation SXRD panel and advanced Iris3 technology achieve an incredible dynamic contrast ratio of 1,000,000:1.

- Richer pictures with Wide Colour Space (DCI, Adobe RGB)
- Transport delay reduction, for smooth images
- Portrait or landscape installation
- Smear reduction with Sony's Dark Frame Insertion technology
- Compact – 20kg

	Projector (VPL-GT100)
Resolution	4096 x 2160
Display device	3 x 0.74" 4K SXRD
Brightness	2,000 lumens
Dynamic contrast ratio	1,000,000:1
Lamp technology	330W HMP lamp

LKRL-Z519

LKRL-Z219

LKRL-Z514

LKRL-Z211

LKRL-Z511

Lamp

	SRX-T615	SRX-T420
Lamp	LKRM-U450 LKRM-U330 LKRM-U331	LKRX-2042A

Interchangeable lens

SRX-T615	LKRL-Z511	LKRL-Z514	LKRL-Z519	
Throw ratio	1.05-1.75	1.35-2.34	1.80-4.00	
SRX-T423	LKRL-Z211	LKRL-Z214	LKRL-Z219	LKRL-Z140
Throw ratio	1.05-1.75	1.35-2.40	1.85-4.00	3.81-7.12
3D Lens for SRX-T615	LKRL-A502	LKRL-A503		
Throw ratio	1.03-1.85	1.70-3.76		

Interface board

	SRX-T615	SRX-T420
DVI Board	QMCB-DVI	LKRI-005
HD-SDI Board	QMCB-SDI	LKRI-003

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

VPL-GTZ280

4K SXRD up to 5000 lumens Laser Light Source Projector

Sony combines the best of its projection technologies, 4K SXRD imagery and laser light source technology, to create a projector with native 4K resolution, 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
- 4K 3D capability for reliable simulation*
- Deep blacks reduce white band visibility for multi-projector blending
- Long life optics, up to 20,000h (up to 40,000h in low brightness mode)
- Dust resistance by sealed optics
- Constant brightness mode and periodic auto calibration for enduring image quality
- High speed motion functions: 4K 120Hz input, smear reduction, transport delay reduction*
- Infrared light output for night vision simulation*
- Angle-free installation and vibration endurance for motion based system
- Whisper quiet operation less than 35dB
- HDR (High Dynamic Range) Gamma*

All information and data given is preliminary as of August 2015

		VPL-GTZ280
Display system		4K SXRD panel projection system
Display device	Size of effective display area	0.74» (18.8mm) x3
	Number of pixels	26,542,080 (4096 x 2160 x 3) pixels
Projection lens**	Focus	Powered
	Zoom	Powered
	Lens Shift	VPLL-Z7008: Powered V:± 0.5V I H:± 0.18H VPLL-Z7013: Powered V:± 0.8V I H:± 0.31H
	Throw Ratio	VPLL-Z7008: 0.8:1 to 1.0:1 VPLL-Z7013: 1.27:1 to 2.73:1
Light source		Laser diode
Light output		up to 5,000 lm*
Colour light output		up to 5,000 lm*
Contrast ratio		∞ to 1 (dynamic contrast)
Display resolution	Computer signal input	Maximum display resolution: 4,096 x 2,160 dots
	IMaximum Video signal input	4K120p 4:4:410bit (DP x 4)
Input / Output		Display Port (HDCP 1.3,) x 2, Display Port (HDCP 1.3, Up to 1920x1080) x2, RS-232C,SYNC IN/OUT,IR IN/OUT, Trigger,LAN,USB
Acoustic noise		35 dB
Operating temperature (Operating humidity)		5°C to 40°C (41°F to 104°F) (35% to 85%) (no condensation)
Power requirements		AC100V to 240V, 50/60Hz
Power consumption I Standby Power Consumption		approx. 1.2KW	0.5 W
Heat dissipation		4,095 BTU/h
Dimensions		W550 x H228 x D750 (mm) I W21.6 x H9.0 x D29.5 (inch)
Mass		40kg I 88.2 lb (excluding lens)
Optional accessories		VPLL-Z7013 (Normal throw lens), VPLL-Z7008 (Short throw lens), TDG-BT500A (3D glass)

*Configurable function.|**The lenses are optional accessories.

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

VPL-GTZ270

4K SXRD 5000 lumens Laser Light Source Projector

Sony combines the best of its projection technologies, 4K SXRD imagery and laser light source technology, to create a projector with native 4K resolution, 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
- '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
- Constant brightness mode and periodic auto calibration for enduring image quality
- Angle-free installation
- Robust chassis for easy handling and self stack capability
- Whisper quiet operation less than 35dB

All information and data given is preliminary as of August 2015	

		VPL-GTZ270
Display system		4K SXRD panel projection system
Display device	Size of effective display area	0.74» (18.8mm) x3
	Number of pixels	26,542,080 (4096 x 2160 x 3) pixels
Projection lens*	Focus	Powered
	Zoom	Powered
	Lens Shift	VPLL-Z7008: Powered V:± 0.5V I H:± 0.18H VPLL-Z7013: Powered V:± 0.8V I H:± 0.31H
	Throw Ratio	VPLL-Z7008: 0.8:1 to 1.0:1 VPLL-Z7013: 1.27:1 to 2.73:1
Light source		Laser diode
Light output		5,000 lm
Colour light output		5,000 lm
Contrast ratio		∞ to 1 (dynamic contrast)
Display resolution	Computer signal input	Maximum display resolution: 4,096 x 2,160 dots
	IMaximum Video signal input	4K60p 4:4:4 8bit /4:2:2 12bit (HDMI) 4K60p 4:4:4 8bit (Display Port)
Input / Output		HDMI (HDCP 2.2) x 2,Display Port (HDCP 1.3) x 2, RS-232C,SYNC IN/OUT,IR IN/OUT, Trigger,LAN,USB
Acoustic noise		35 dB
Operating temperature (Operating humidity)		5°C to 40°C (41°F to 104°F) (35% to 85%) (no condensation)
Power requirements		AC100V to 240V, 50/60Hz
Power consumption I Standby Power Consumption		approx. 1.2KW I 0.5 W
Heat dissipation		4,095 BTU/h
Dimensions		W550 x H228 x D750 (mm) I W21.6 x H9.0 x D29.5 (inch)
Mass		40kg I 88.2 lb (excluding lens)
Optional accessories		VPLL-Z7013 (Normal throw lens), VPLL-Z7008 (Short throw lens), TDG-BT500A (3D glass)

*The lenses are optional accessories.

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

Ten projektor jest zaliczony do KLASY 2 SPRZ TU LASEROWEGO. (Promieniowanie lasera IEC60825-1:2007)
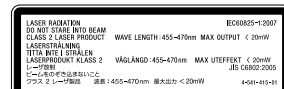
LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT   WAVE LENGTH: 455~470nm MAX OUTPUT < 20mW
LASERSTRÅLNING
TITTA INTE I STRÅLEN
LASERPRODUKT KLASS 2   VÅGLÄNGD: 455~470nm MAX UTEFFEKT < 20mW
IEC60825-1:2007
JIS C6802:2005
4-541-415-01

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

Amazing sound.
Clear and simple.

Professional Audio

Sony's professional audio solutions include leading-edge digital and analogue wireless microphone systems and professional microphone packages.

DWZ Digital Wireless Microphone Series
The DWZ microphone series offers serious sound quality, with patented digital wireless audio transmission technology and world-leading analogue microphone expertise.

Versatile, easy to set up and use, DWZ is highly regarded for its stability and reliability. It's available in four different versions: for musical performances, such as bands and live concerts; plus venues including congress centres, schools, universities, community halls, churches, hotels, board rooms and small theatres.

Highlights

• 'One World One Frequency' at 2.4GHz for transmission of 24-bit/48KHz linear PCM for the best audio quality.

• Interchangeable microphone head on the ZTC-M02RC handhelds is designed for using third-party capsules.

• Great features like the Intelligent Feedback Reducer can suppress unwanted feedback with high-performance DSP and the AES 128-bit standard encryption technology secures transmitted signals.

	DWZ-M70	DWZ-B70HL
Transmitting		
Transmitter Type	Handheld	Bodypack
Carrier Frequencies	2402.0-2478.5 MHz	
RF Power Output	10mW (e.i.r.p)	
Receiving		
Receiver Type	Rack-mount (Half / 1 channel)	
Reception Type	Space diversity	
Antenna Type	External whip antenna	
Receiving Frequencies	2402.0-2478.5 MHz	
RF Sensitivity	24 dBμV or less	
Audio		
Capsule Type	Dynamic	Electret condenser
Directivity	Uni-directional	
Maximum Input Level	142 dB SPL (with 12 dB attenuator)	MIC: -22 dBu INST/LINE: +8 dBu (when attenuator level is 0 dB)
Audio Attenuator Adjustment Range	0 / 6 / 12 dB	0 / 10 / 20 dB
Frequency Response	Transmission: 10 Hz to 22 kHz Microphone unit: 70 Hz to 16 kHz	Transmission: 10 Hz to 22 kHz Headset microphone: 60 Hz to 18kHz Lavalier microphone: 60 Hz to 18kHz
Dynamic Range	102 dB (A-weighted)	MIC: 102 dB (A-weighted) / INST/LINE: 98 dB (A-weighted)
Audio Delay	Narrow band mode: Approx. 3 ms / Wide band mode: Approx. 6 ms (Transmitter + Receiver) (Additional Audio Delay for Intelligent Feedback Reducer / Low: 0 ms, Mid: 8 ms, High: 16 ms)	
Distortion (T.H.D)	0.03% or less (-38 dBu, 1 kHz input)	
Analogue Output	XLR-3-32, balanced (x1) / Phone jack, unbalanced (x2) (Intelligent Feedback Reducer is available)	
Reference Output Level	Balanced output: MIC: –58 dBu / LINE: –12 dBu, Unbalanced output: –28 dBu	
Other Equipment		
Encryption	AES 128-bit	
Display	LCD	
USB Port (for firmware update)	TX x1 / RX x 1	
General		
Power Requirements	ZTX-M02RC: 3.0 V DC (two LR6 (size AA) alkaline dry cell batteries) *Rechargeable function is available with two HR6 (size AA) Ni-MH rechargeable batteries ZRX-HR70: External DC input: 12 V DC	ZTX-B02RC: 3.0 V DC (two LR6 (size AA) alkaline dry cell batteries) *Rechargeable function is available with two HR6 (size AA) Ni-MH rechargeable batteries ZRX-HR70: External DC input: 12 V DC
Battery Operating Time	Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)	
Operating Temperature	0°C to 50°C / 32°F to 122°F	
Storage / Transport Temperature	-20°C to +60°C /-4°F to +140°F	-20°C to +60°C /-4°F to +140°F
Dimensions	ZTX-M02RC: 48 x 258 mm (1 15/16 × 10 1/4 inches) (diameter/length) ZRX-HR70: 168 x 44 x 96 (6 5/8x 1 3/4 ×3 7/8 inches) (w/h/d)	ZTX-B02RC: 63 × 87 × 20 mm (2 1/2 × 3 1/2 × 13/16 inches) (w/h/d) (excluding the antenna) ZRX-HR70: 168 x 44 x 96 (6 5/8x 1 3/4 ×3 7/8 inches) (w/h/d)
Mass	ZTX-M02RC: Approx. 308 g (11 oz.) (including batteries) ZRX-HR70: Approx. 510 g (1 lb. 2.0 oz.)	ZTX-B02RC: Approx. 162 g (5.7 oz.) (including batteries) ZRX-HR70: Approx. 510 g (1 lb. 2.0 oz.)
Supplied Accessories	ZTX-M02RC (1), ZRX-HR70 (1), Mic holder (1), Antenna (2), AC adapter (1), Quick Start Guide (1), Before Use (1), CD-ROM (1)	ZTX-B02RC (1), ZRX-HR70 (1), Uni-directional Lavalier Microphone (1), Uni-directional Headset Microphone (1), Mic holder clip (1), Cord Clip (1), Wind Screen (1), Belt Clip (1), Belt Clip Screw (1), Antenna (2), AC adapter (1), Quick Start Guide (1), Before Use (1), CD-ROM (1)

DWZ-M70 / DWZ-B70HL — Optional Accessories

BC-DWZ1
Battery charger

RMM-HRD1
Rack mount kit

ECM-HZ1UBMP
Headset mic

ECM-LZ1UBMP
Lavalier mic

GC-0.7BMP
Guitar cable

EC-1.5BX XLR
Input cable

Service and Support

PrimeSupport and PrimeSupport+ deliver a service and support level superior to that covered in your normal warranty to deliver true peace of mind. PrimeSupport packages are automatically applied as standard. For optional PrimeSupport+ extensions please contact your Sony Account Manager or authorised dealer.

Visual communications – video conferencing

Products	Contract Type	Reference	Duration	Services Included			
				Phone Helpdesk	Logistics	Repair	Loan
PCS Series	PrimeSupport	Included Service PS.VIDEOCONF.3	3 years	✓	✓	✓	-
	PrimeSupport+	PSP.VIDCONFSYSM.4	1 Year repair Extension Total 4 years	✓	✓	✓	-
		PSP.VIDCONFSYSM.5	2 Years repair Extension Total 5 years	✓	✓	✓	-
		PSP.HDCONFSYS.RL3	3 Years Repair & Loan	✓	✓	✓	✓
		PSP.HDCONFSYS.RL4	4 Years Repair & Loan	✓	✓	✓	✓
		PSP.HDCONFSYS.RL3	5 Years Repair & Loan	✓	✓	✓	✓

Visual communications – visual imaging cameras

Products	Contract Type	Reference	Duration	Services Included			
				Phone Helpdesk	Logistics	Repair	Loan
SRG & EVI Series	PrimeSupport	Included Service PS.VIDEOCONF.3	3 years	✓	✓	✓	-
	PrimeSupport+	PSP.SDCAMERA.4	1 Year repair Ext. (Total 4 years) SD EVI Series	✓	✓	✓	-
		PSP.SDCAMERA.5	2 Years repair Ext. (Total 5 years) SD EVI Series	✓	✓	✓	-
		PSP.HDCAMERA.4	1 Year repair Ext. (Total 4 years)HD EVI & SRG Series	✓	✓	✓	-
		PSP.HDCAMERA.5	2 Years repair Ext. (Total 5 years)HD EVI & SRG Series	✓	✓	✓	-
		PSP.HDCAMERA.RL3	3 Years Repair & Loan HD EVI & SRG Series	✓	✓	✓	✓
		PSP.HDCAMERA.RL3	4 Years Repair & Loan HD EVI & SRG Series	✓	✓	✓	✓
		PSP.HDCAMERA.RL3	5 Years Repair & Loan HD EVI & SRG Series	✓	✓	✓	✓

Visual simulation and visual entertainment

Products	Contract Type	Reference	Duration	Services Included			
				Repair	Tech Support	Express Parts	On-site Engineer
SRX-T615/T423	Warranty	Warranty	1 year	✓	-	-	-
	PrimeSupport+	PSP.TECHSUP.3[1]	3 Years	-	✓	-	-
		PSP.TECHSUP.5[1]	5 Years	-	✓	-	-
		PSP.EXPRESSPARTS.3[2]	3 Years	-	-	✓	-
		PSP.EXPRESSPARTS.5[2]	5 Years	-	-	✓	-
		PSP.ONSITEENG.1[2]	1 Day Onsite Engineer	-	-	-	✓

Products	Contract Type		Reference	Duration	Services Included				
					Phone Helpdesk	Logistics	Repair	Loan unit	Swap
VPL-GT100	PrimeSupport	Product	Included Service PS.VPLGT100.3.L1	3 Years	✓	✓	✓	-	-
		Lamp		1 year or 1000 h	✓	✓	-	-	✓
	PrimeSupport+	Product	PSP.VPLGT100.5	+2 years (Total 5 years)	✓	✓	✓	-	-
VPL-GTZ1	PrimeSupport	Product	Included Service PS.LASPROJPJD.3	Unit: 3 Years unit Optical Block & Laser: 7000h	✓	✓	✓	-	-
VPL-GTZ270/280	PrimeSupport	Product	Included Service PS.LASPROJPJD.3	Unit: 3 Years unit Optical Block & Laser: 7000h	✓	✓	✓	-	-

(1) Covers a single projector. Gives access to Express Parts and On-Site engineer.
(2) Covers a single projector. Technical Support must be purchased to be able to purchase this product.

Service contracts may be available.

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