

VPL-FHZ66/FHZ61/FHZ58 VPL-FWZ65/FWZ60

3LCD Laser Projector

VPL-FH65/FH60/FW65/FW60

3LCD Installation Projector











Bright, Beautiful Images with Low Running Costs, Minimal Maintenance, and Flexible Installation

Because no two organizations are alike, Sony aims to meet diverse installation and budget requirements with its range of professional laser and lamp projectors. There are models to suit every commercial, academic, large-scale, and entertainment application. The VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60 laser projectors are ideal for a wide range of business and education applications. Their powerful Z-Phosphor™ laser light source is teamed with Sony's advanced 3LCD projection engine to deliver extremely bright, rich, and stable colors. For applications better-suited to lamp-based projection, the VPL-FH65/FH60/FW65/FW60 projectors offer cost-effective options that nevertheless deliver high-quality performance. You can choose brightness of 6,100 lumens (VPL-FHZ66),6,000 lumens (VPL-FH65), 5,100 lumens (VPL-FHZ61), 5,000 lumens (VPL-FH60), or 4,200 lumens (VPL-FHZ58) with WUXGA resolution images, and each model uses BrightEra panel technology to reproduce natural and vivid color. All of these projectors are designed to deliver enhanced picture quality with advanced features such as Reality Creation and Contrast Enhancer- both of these technologies are already used by Sony's home theater projection systems for high-end consumer entertainment. The Reality Creation engine analyzes and processes every input signal to refine detail, clarity, and sharpness for naturally up-scaled image. The Contrast Enhancer feature expands the perceived dynamic range of the signal in real-time. Both features contribute to enhancing the visual experience wherever these projectors are installed. The laser projectors (VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60) pack all the benefits of laser technology into a blend-in design. A laser light source means avoiding lamp-related problems: lamps need to slowly warm up and cool down, they limit the tilt angle, and typically they force a compromise between high brightness and high resolution. The VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60 deliver instant on/off. Turn the projector on and you have immediate full brightness. Turn it off and you're done. You're not even limited in the number or duration of on/off cycles. It's the total convenience that today's users expect. All four models have a built-in, HDBaseT™ interface, enabling easier connectivity and reducing total system cost by using single category cable which runs all the video, audio, control, and IP signals up to 328 ft' (100 m). These projectors also have a new integrated terminal cover design which allows installation without any visible cable runs from any angle. The integrated cover also helps you to manage cables without attaching any external cable cover boxes (avoiding a bulky installation). In addition, these projectors have a wide powered lens shift, which allows their installation in challenging environments. And each can be combined with wide variety of optional lenses to suit specific installation requirements. Available optional lenses include 0.33:1 ultra short throw and tele-zoom with a throw range of up to 4.84:1, with a bayonet lens mounting system for easier, quicker lens interchange. Offering a stylish blend-in design, tidy cable management, and low fan noise, these five projectors can fit smoothly into almost any environment – from entertainment venues to academic institutions to corporate spaces.



For business



For academic use



For entertainment

Slim, Attractive, Blend-in Design

The slim, stylish case design features a flat top surface that blends in discreetly when the projector is ceiling mounted. The clean appearance is accentuated by a new terminal cover that reduces cable clutter.



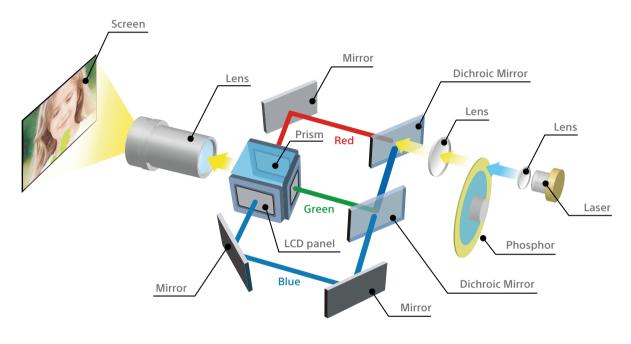


High Image Quality

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

Very High Image Quality with 3LCD Projection System and Z-Phosphor Laser Light Source

Combining a Z-Phosphor laser light source with a 3LCD optical system, the ground-breaking VPL-FHZ66, VPL-FHZ61 and VPL-FHZ58 projectors generate a powerful 6,100 lumens, 5,100 lumens and 4,200 lumens respectively of color light output at WUXGA resolution (FWZ65/FWZ60 at WXGA resolution). Each projector's light engine uses blue laser as its light source, which excites a phosphorous material that in turn creates white light. The white light is delivered to the 3LCD optical system, which generates constant, vibrant RGB color through a color-splitting process. This produces brightness sufficient for a broad range of commercial, academic, and entertainment applications.



VPL-FHZ66/FHZ61/FHZ58 VPL-FH65/FH60

Crisp, Detail-packed WUXGA Resolution Images

These projectors deliver an amazing WUXGA resolution (1920 x 1200), which exceeds Full-HD resolution (1920 x 1080). It also allows projection in a wider display range. More information can be displayed on screen, so you can see the whole page without scrolling. Extremely clear and detailed high-quality images are projected, even on a large screen, and native Full-HD images can be projected full screen. These ground-breaking projectors are the ultimate tool for projecting images in a range of applications requiring exceptional detail.



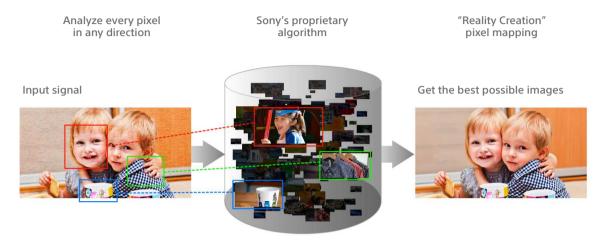
Simulated images

Licensed by Tokyo Tower

Advanced Picture Refinement Technologies

• See Extreme Clarity in Every Pixel

Developed for Sony's home theater projectors, the Reality Creation function has now been adapted for the VPL-FHZ66, VPL-FHZ61, VPL-FHZ58, VPL-FH65 and VPL-FH60. It reproduces the texture and color of the original WUXGA (VPL-FWZ65, VPL-FWZ60, VPL-FW65, VPL-FW60 at WXGA) signal by restoring missing information lost during packaging of the original contents to disk and broadcast transmission.

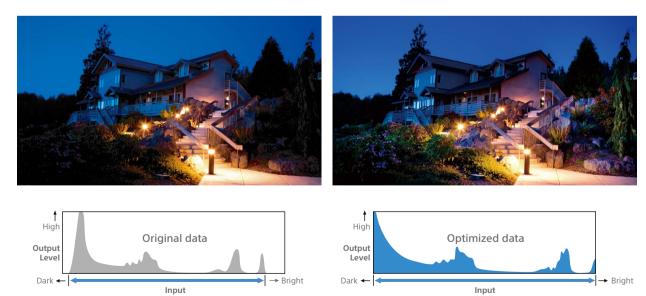


Picture patterning based on 10 years of accumulated expertise

Simulated images

• Dynamic Image with High Contrast

The Contrast Enhancer function automatically adjusts the contrast for optimum viewing. It compensates for dark and bright parts of an image by analyzing the signal component of each scene in real time to enhance contrast.



Simulated images

Good TCO & Energy Efficient

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

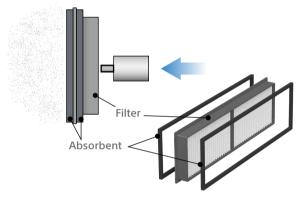
Up to 20,000 Hours* of Virtually Zero Maintenance Operation

Thanks to its Z-Phosphor laser light source with control technology, long-life LCD panel, and advanced filter system, the laser projectors (VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60) offer up to 20,000 hours* of operation without maintenance or replacement. Virtually zero maintenance requirements and a range of energy-saving features reduce total lifetime ownership costs compared with conventional projectors.

* Actual hours may vary depending on usage environment.

Hassle-free Automatic Filter Cleaning

Now you can focus on great-looking images instead of arduous maintenance tasks. A new automated filter cleaning system removes dust every 100 hours*.



* Auto cleaning occurs only when power is off.

100% 50% Time → Conventional model VPL-FHZ66/FHZ61/FHZ58/ FWZ65/FWZ60/FH65/ FH60/FW65/FW60

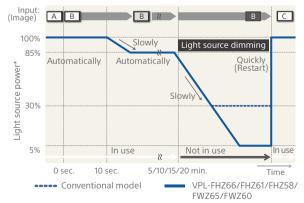
Simulated images

Energy-efficient Functions

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

• Auto Dimming Mode

The laser projectors are equipped with a light source dimming function. After 10 seconds of a static signal feed, the light source dims by approximately 15% which is barely noticeable. If the VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60 are left powered on while not in use, after a set period of time the unit will automatically detect no change of signal input and will dim the light source to as low as approximately 5% of original brightness to significantly reduce energy consumption.



* Light source mode: High. The values are approximate.

When the input signal is unchanged, the unit shifts into dimming mode

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

Air flow performance

Auto Light Source Control for Energy Saving

The brightness of the light source's output is automatically adjusted depending on the brightness of the projected image, to avoid unnecessary power consumption. When showing darker images that don't require high brightness, the light source output decreases.

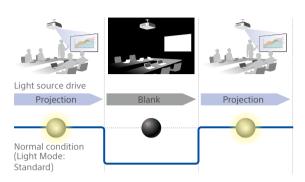


Simulated images

Simulated images 5

• Blank (Picture Muting)

The projectors can temporarily disable video signal output. This function can be easily operated with just the touch of a button on the supplied Remote Commander unit. In addition, this function allows blank image projection with low power consumption using light source control technology.

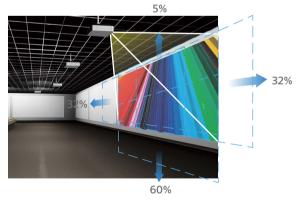


Simulated images

Installation Advantages

Powered Lens Shift Function*

All of these projectors have a Lens Shift function. Using this function, the position of the projected image can be moved horizontally by -32% to +32% and vertically by -5% to +60%. Images can be easily adjusted to the desired settings during installation. With this exceptional shift range, the projectors can be installed in ways to maximize performance even in the most difficult environments.



* Depends on lens

Simulated images

Included Powered Standard Zoom Lens Plus Wide Choice of Lens Options

Installation flexibility is increased by a wide range of compatible lens options to suit virtually any size of room and throw requirement. The quick-release bayonet mount simplifies quick lens exchange.

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

Tilt Angle-free

Enjoy greater installation flexibility by positioning the projector freely at any angle – on its side or even upside down.



Simulated images

Simple Installation with HDBaseT

HDBaseT is a multi-signal transmission system via a single cable, which simplifies the installation task. It cuts total system cost by reducing not just cabling requirements but also the number of required signal extenders and receiver

One Cat5e/6 cable can run up to 100 meters, reducing the number of cable runs and eliminating the need for signal extenders. And fewer signal extenders and receiver boxes mean fewer potential points of failure. In addition, Cat5e/6 cables are much easier to terminate than cables such as HDMI, and therefore can be simply and quickly terminated even onsite during the installation process.



VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60 VPL-FH65/FH60/FW65/FW60

Project onto Non-flat Surfaces with Image Warping

Easily correct image geometry for natural-looking projections, even on convex or concave surfaces. Corner and edge correction can be easily adjusted with the supplied remote and onscreen menu.







Four sides correction Simulated images

Create Supersize Displays with Edge Blending

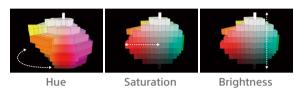
Seamlessly join accurately color-matched images from multiple projectors, simplifying the creation of stunning supersize displays for retail, corporate, and live event applications.



Simulated images

Professional Calibration

The projectors offer a professional calibration function to adjust the hue, saturation and brightness of each target color to get exactly the picture you want. With this capability, you can tweak the images to perfection.



Simulated images

In addition to that, the projectors adjust the color space for red, green and blue, tweak the images according to installation condition.

User Advantages

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

Constant Brightness Mode for Stable Projection

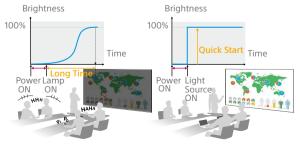
Constant brightness mode allows you to maintain brightness throughout the expected 20,000* hour life by driving each laser projector at reduced light output. This is useful for applications including museums, conference rooms, or even classrooms where you want to maintain a consistent visual experience for the audience.

* Actual hours may vary depending on usage environment.

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60

Save Time with Every Presentation

The laser projectors deliver instant on/off. Turn the unit on and you have immediate full brightness. Turn it off and you're done. You're not even limited in the number or duration of on/off cycles. It's the total convenience that today's users expect.



Conventional lamp model

VPL-FHZ66/FHZ61/FHZ58/ FWZ65/FWZ60

Simulated images

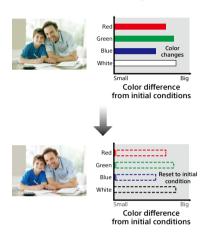
Picture Mode

New modes ensure great-looking pictures in any presentation conditions. Select Standard, Dynamic. Brightness Priority, or Multi-screen Picture mode for optimized image quality, with any source and in every room.

VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60 VPL-FH65/FH60/FW65/FW60

Built-in Auto Calibration

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



VPL-FHZ66/FHZ61/FHZ58/FWZ65/FWZ60 VPL-FH65/FH60/FW65/FW60

Simple Setup with Friendly New Installation Menu

You can use the remote commander to easily adjust projector settings, including warping and edge blending.

Project Side by Side

Project images from two inputs at the same time-it's ideal for applications such as video conferencing and medical training where two images need to be seen simultaneously.

Closed Captioning

Official teletext broadcasting, developed by the NCI, USA

Network and Control

Controls and monitors projector status

Compatible with various control systems



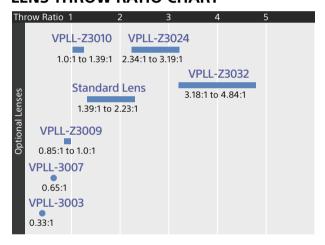


OPTIONAL LENSES

Projection lens	VPLL-3003**	VPLL-3007	VPLL-Z3009	VPLL-Z3010	VPLL-Z3024	VPLL-Z3032
Throw ratio	0.33:1	0.65:1	0.85:1 to 1.0:1	1.0:1 to 1.39:1	2.34:1 to 3.19:1	3.18:1 to 4.84:1
Zoom / Focus	- / Powered	- / Manual	Manual / Manual	Powered / Powered	Powered / Powered	Powered / Powered
Lens shift	Vertical: Upward 5% to Downward 5% Horizontal: Right 5% to Left 5%	Vertical: Upward 10% to Downward 5% Horizontal: Right 4% to Left 4%	Vertical: Upward 50% to Downward 5% Horizontal: Right 24% to Left 24%	Vertical: Upward 60% to Downward 5% Horizontal: Right 29% to Left 29%	Vertical: Upward 60% to Downward 5% Horizontal: Right 32% to Left 32%	Vertical: Upward 60% to Downward 5% Horizontal: Right 32% to Left 32%
Aperture	f/1.85	f/1.75	f/1.85 to 2.1	f/1.75 to 2.1	f/2.00 to 2.30	f/2.00 to 2.40
Screen size*	80" to 300"	60" to 300"	60" to 300"	60" to 300"	40" to 600"	40" to 600"
Dimensions	W 229 x H 193.7 x D 424.7 mm	W 150 x H 150 x D 222 mm	W 150 x H 150 x D 217 mm	W 150 x H 150 x D 227 mm	W 97 x H 105 x D 177 mm	W 97 x H 105 x D 177 mm
Mass	2.9 kg	1.7 kg	1.7 kg	2.0 kg	1.2 kg	1.2 kg

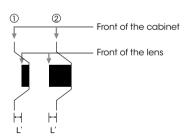
^{*} Viewable area, measured diagonally. ** Refer to Page:12

LENS THROW RATIO CHART



The distance L is between the front of the lens (center) and the front of the cabinet.

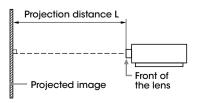
	U	nit: mm (inches)
Lens		Туре
Standard lens	1.2 (1/6)	2
VPLL-3003	256 (10 3/32)	2
VPLL-3007	52.4 (2 1/16)	2
VPLL-Z3009	51.2 (2 1/32)	2
VPLL-Z3010	60 (2 3/8)	2
VPLL-Z3024	9.9 (3/8)	2
VPLL-Z3032	9.9 (3/8)	2



INSTALLATION DIAGRAM

Unit: m (inches)

Projection image size							
Diagonal	Width x Height	Standard lens	VPLL-3007	VPLL-Z3009	VPLL-Z3010	VPLL-Z3024	VPLL-Z3032
80-inch	1.72 x 1.08	2.36 - 3.86	1.09	1.44 - 1.69	1.69 – 2.37	4.00 - 5.48	5.45 - 8.32
(2.03 m)	(68 x 42)	(93 - 152)	(43)	(57 - 66)	(67 – 93)	(158 - 215)	(215 - 327)
100-inch	2.15 x 1.35	2.96 - 4.84	1.38	1.82 - 2.13	2.13 - 2.98	5.03 - 6.87	6.84 - 10.43
(2.54 m)	(85 x 53)	(117 - 191)	(54)	(72 - 84)	(84 - 117)	(198 - 270)	(270 - 410)
120-inch	2.58 x 1.62	3.57 - 5.82	1.67	2.20 - 2.57	2.56 – 3.59	6.05 - 8.27	8.24 - 12.55
(3.05 m)	(102 x 64)	(141 - 229)	(66)	(87 - 101)	(101 – 141)	(238 - 325)	(325 - 494)
150-inch	3.23 x 2.02	4.47 - 7.29	2.11	2.76 - 3.23	3.22 - 4.50	7.59 – 10.36	10.33 - 15.72
(3.81 m)	(127 x 79)	(176 - 287)	(83)	(109 - 127)	(127 - 177)	(299 – 408)	(407 - 619)
200-inch	4.31 × 2.69	5.97 - 9.73	2.83	3.70 - 4.34	4.31 - 6.03	10.15 - 13.85	13.82 - 21.00
(5.08 m)	(170 × 106)	(235 - 383)	(112)	(146 - 170)	(170 - 237)	(400 - 545)	(544 - 827)



PRESET SIGNAL CHART

Computer Signal

		Input connector		
Resolution	fH [kHz]/ fV [Hz]	RGB*1	DVI-D' ² /HDMI' ⁶ / Digital Interface Adaptor BKM- PJ10' ⁷ /3G-SDI INPUT Adaptor BKM-PJ20' ⁷	
640 x 350	31.5/70	•	_	
	37.9/85	•	_	
640 x 400	31.5/70	•	_	
	37.9/85	•	_	
	31.5/60	•	•	
	35.0/67	•	-	
640 x 480	37.9/73	•	-	
	37.5/75	•	-	
	43.3/85	•	_	
	35.2/56	•	_	
	37.9/60	•	•	
800 x 600	48.1/72	•	_	
	46.9/75	•	_	
	53.7/85	•	_	
832 x 624	49.7/75	•	_	
	48.4/60	•	•	
1024 700	56.5/70	•	_	
1024 x 768	60.0/75	•	_	
	68.7/85	•	_	
	64.0/70	•	_	
1152 × 864	67.5/75	•	_	
	77.5/85	•	-	
1152 x 900	61.8/66	•	_	
	60.0/60	•	•	
1280 x 960	75.0/75	•	_	
	64.0/60	•	•	
1280 x 1024	80.0/75	•	_	
	91.1/85	•	_	
1400 x 1050	65.3/60	•	•	
1600 x 1200	75.0/60	•	•	
1280 x 768	47.8/60	•	•	
1280 x 720	45.0/60		● *2	
1920 x 1080	67.5/60	_	*2	
1366 x 768	47.7/60	•	•	
1440 x 900	55.9/60	<u> </u>	•	
1680 x 1050	65.3/60			
1280 x 800	49.7/60			
1920 x 1200	74.0/60	*1	● *1	
1600 x 900	60.0/60	●*1	●*1	
1000 X 300	00.0700			

Video Signal

		Input connector				
Signal	fV [Hz]	VIDEO/ S VIDEO	INPUT A	INPUT B/ INPUT C/ INPUT D		
NTSC	60	•	-	_		
PAL/SECAM	50	•	-	_		
480i	60	_	•	•		
576i	50	_	•	•		
480p	60	_	•	•		
576p	50	-	•	•		
1080i	60	-	•	•		
1080i	50	_	•	•		
720p	60	_	•	● *2		
720p	50	_	•	•		
1080p	60	_	_	● *2		
1080p	50	_	_	•		
1080p	24	_	-	•		

- *1: Available for VESA Reduced Blanking signals only.
- *2: INPUT B is determined as a computer signal; INPUT C/INPUT D is determined as a video signal.
- When a signal other than the signals listed in the table is input, the picture may not be displayed properly.
- An input signal meant for a screen resolution that differs from that of the panel will not be displayed in its original resolution. Text and lines may be uneven.
- Some actual value may differ slightly from the design values given in the table.

OPTIONAL ACCESSORIES



LMP-F370



LKRA-FL1Optical Filter



PSS-650Projector Suspension Support



LMP-F280 Projector Lamp

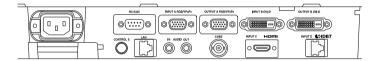


LKRA-FL2 Optical Filter

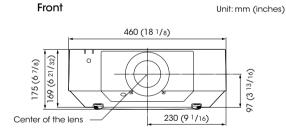


PSS-650P Projector Suspension Support Joint Pole

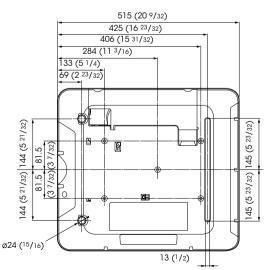
CONNECTOR PANELS



DIMENSIONS



Bottom



SPECIFICATIONS

		VPL-FHZ66	VPL-FHZ61	VPL-FHZ58	VPL-FWZ65	VPL-FWZ60			
Display system		3 LCD system				1			
Display device	Size of effective display area	0.76" (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10							
	Number of pixels	6,912,000 (1920 x 1200 x 3) p	ivals		3,072,000 (1280 x 800 x 3) pi	volc			
Projection lens*1	Zoom	Powered (Approx. x 1.6)	ivei		3,012,000 (1200 x 000 x 3) p	VCI2			
riojectioniens	Focus		Powered						
	Lens shift	Powered, Vertical: -5%, +60%, Horizontal: +/-32%							
	Throw ratio	1.39:1 to 2.23:1							
Light source		Laser diode							
	np replacement time*2								
	placement cycle (Max.)*2	20,000 H (service maintenar							
Screen size		40" to 600" (1.02 m to 15.24							
	e: Standard / Middle)	6100 lm / 4000 lm	5100 lm / 3500 lm	4200 lm / 3000 lm	6000 lm / 4000 lm	5000 lm / 3500 lm			
Color light output (Middle)	(Mode: Standard /	6100 lm / 4000 lm	5100 lm / 3500 lm	4200 lm / 3000 lm	6000 lm / 4000 lm	5000 lm / 3500 lm			
Contrast ratio*3 (fu	ll white / full black)	500000:1			10000:1				
Displayable scanning	Horizontal	15kHz to 92kHz							
requency	Vertical	48Hz to 92Hz							
Display resolution	Computer signal input	Maximum display resolution	: 1920 x 1200 dots*4						
p.2, .250.600	Video signal input	' '	576/50i, 480/60p, 576/50p, 72	20/60p. 720/50p. 1080/60i 10	080/50i				
	aco signal input		lable for digital signal only; 10						
Color system		NTSC3.58, PAL, SECAM, NTSC							
Keystone correctio	n (Max)	Vertical: +/- 30 degrees							
reystoric correctio	TT (Wax.)	Vertical: +/- 30 degrees Horizontal: +/- 30 degrees							
OSD language		24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified							
ODD lariguage		Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)							
Computer and	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack							
video signal	INPUT B								
nput/output	INPUT C	DVI input connector: DVI-D 24-pin (single link), HDCP support, Audio input connector: Shared with INPUT A HDMI input connector: HDMI 19-pin, HDCP support, Audio input connector: HDMI audio support							
	INPUT D								
	VIDEO IN	HDBaseT interface connector: RI45, 4 play (Video, Audio, LAN, Control)							
		Video input connector: BNC, Audio input connector: Shared with input A							
	OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female), Audio output connector: Stereo mini jack							
	OUTPUT B	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported, Audio output, Monitor out connector: Stereo mini jack							
Control signal inpu	it/output	RS-232C connector: D-sub 9-pin (male), LAN connector: RJ45,10BASE-T / 100BASE-TX, IR (Control S) connector: Stereo mini jack Plug in power DC 5 V							
Acoustic Noise (Mo	ode: Standard / Middle)	34 dB / 28 dB		32 dB / 28 dB	34 dB / 28 dB				
Operating tempera	ature (Operating humidity)	0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)							
Storage temperatu	ire (Storage humidity)	-10°C to +60°C (14°F to +140°	F) / 20% to 80% (no condensa	tion)					
Power requiremen		AC 100 V to 240 V, 5.5 A to	AC 100 V to 240 V, 4.5 A to	AC 100 V to 240 V, 4.5 A to	AC 100 V to 240 V, 5.5 A to	AC 100 V to 240 V, 5.5A to			
,		2.3 A, 50 Hz / 60 Hz	1.9 A, 50 Hz / 60 Hz	1.9 A, 50 Hz / 60 Hz	2.3 A, 50 Hz / 60 Hz	2.3A, 50 Hz / 60 Hz			
Power consumption	AC 100 V to 120 V	515 W / 304 W	420 W / 274 W	367 W / 207 W	464 W / 245 W	383 W / 227 W			
(Mode: Standard / Middle)	AC 220 V to 240 V	497 W / 289 W	408 W / 268 W	352 W / 203 W	453 W / 241 W	372 W / 223 W			
Power Consumption	AC 100 V to 120 V	0.5 W (when "Standby mode	" is set to "Low")						
Standby Mode)	AC 220 V to 240 V	0.5 W (when "Standby mode	e" is set to "Low")						
Power Consumption	AC 100 V to 120 V	15.0 W (LAN) / 19.4 W (HDBa	seT) / 19.4 W (ALL Terminals a	nd Networks Connected, whe	n "Standby Mode" is set to "Sta	andard")			
Networked Standby Mode)	AC 220 V to 240 V	13.3 W (LAN) / 17.4 W (HDBaseT) / 17.4 W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")							
Heat dissipation	AC 100 V to 120 V	1757 BTU/h	1433 BTU/h	1252 BTU/h	1583 BTU/h	1307 BTU/h			
	AC 220 V to 240 V	1696 BTU/h	1392 BTU/h	1201 BTU/h	1546 BTU/h	1269 BTU/h			
Outside dimension	ns	Approx. W 460 x H 169 x D 5	15 mm (W 18 1/8 x H 6 21/32 x						
Mass		Approx. 16 kg (34 lb)							
Supplied accessori	es	11 31 /	er (1), Size AA (R6) batteries (2)	, AC Power Cord (1). Plug hold	er*5 (1), Terminal cover (1), Quic	k Reference Manual (1)			
		Operating Instructions (CD-F	() ()		, , , , , , , , , , , , , , , , , , ,				
Replacement lamp	J								

^{*1} With supplied standard lens

LASER NOTICES For the U.S.A.and Canada IEC 60825-1:2007



or other countries

 \triangle

CLASS 1 LASER PRODUCT RISK GROUP 3 to IEC 62471:2006 Warning: Possibly hazardous optical radiation emitted from this product.



^{*2} This figure is the expected maintenance time, not a 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} VPL-FHZ66/FHZ61/FHZ58/VPL-FWZ65/VPL-FWZ60

SPECIFICATIONS

		VPL-FH65	VPL-FH60	VPL-FW65	VPL-FW60		
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					
	Number of pixels	6,912,000 (1920 x 1200 x 3) pixels		3,072,000 (1280 x 800 x 3) pixels			
Projection lens*1	Zoom	Powered (Approx. x 1.6)		5/6.2/666 (1266 X 666 X 5) pixels			
. rojection iens	Focus	Powered					
	Lens shift	owered, Vertical: -5%, +60%, Horizontal: +/-32%					
	Throw ratio	1.39:1 to 2.23:1					
Light source	THIOW IGHO	High pressure mercury lamp	High pressure mercury lamp	High pressure mercury lamp	High pressure mercury lamp		
Ligiti source		370 W type	280 W type	370 W type	280 W type		
Recommended lar	mp replacement time*2	3,000 H / 4,000 H (Lamp mode: Star	, .		71		
	placement cycle (Max.)*2	20,000 H (service maintenance)	,				
Screen size	, , ,	40" to 600" (1.02 m to 15.24 m) (me	asured diagonally)				
Light output (Mod	e: Standard / Middle)	6000 lm / 4400 lm	5000 lm / 3,200 lm	6300 lm / 4780 lm	5200 lm / 3400 lm		
Color light output	(Mode: Standard /	6000 lm / 4400 lm	5000 lm / 3,200 lm	6300 lm / 4780 lm	5200 lm / 3400 lm		
Middle)	أرام ما ما الركار مغنطيين الر	2000 - 1					
	ıll white / full black)	2000 : 1					
Displayable scanning	Horizontal	15kHz to 92kHz					
frequency	Vertical	48Hz to 92Hz					
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	p, 1080/60i, 1080/50i			
			digital signal only; 1080/60p, 1080/5	50p, 1080/24p			
Color system		NTSC3.58, PAL, SECAM, NTSC4.43, PA	L-M, PAL-N, PAL60				
Keystone correction	on (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)					
Computer and	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio input connector: Stereo mini jack					
video signal	INPUT B	DVI input connector: DVI-D 24-pin (single link), HDCP support, Audio input connector: Shared with input A					
input/output	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support, Audio input connector: HDMI audio support					
	INPUT D	HDBaseT interface connector: RI45, 4 play (Video, Audio, LAN, Control)					
	VIDEO IN	Video input connector: BNC, Audio input connector: Shared with input A					
	OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female), Audio output connector: Stereo mini jack					
	OUTPUT B	Monitor output for Input A Connector: Mini D-sub 15-pin (remaie), Audio output connector: Stereo mini Jack Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported, Audio output, Monitor out connector: Stereo mini jack					
Control signal inpu		RS-232C connector: D-sub 9-pin (male), LAN connector: RJ45,10BASE-T / 100BASE-TX, IR (Control S) connector: Stereo mini jack,					
	ada: Ctandard / Middla)	Plug in power DC 5 V 34 dB / 28 dB 35 dB / 28 dB					
Acoustic Noise (Mode: Standard / Middle)		35 dB / 28 dB 35 dB / 28 dB					
	atura (Oparatina humiditu)	1 0°C +0 40°C (22°C +0 104°C) / 200/ +0 t	200/ (no condensation)				
Operating tempera	ature (Operating humidity)	` '	,				
Operating temperations	ure (Storage humidity)	-10°C to +60°C (14°F to +140°F) / 20%	to 80% (no condensation)				
Operating temperations	ure (Storage humidity)	-10°C to +60°C (14°F to +140°F) / 20%	,	AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 4.3 A to 1.8 A, Hz / 60 Hz		
Operating temperations Storage temperation Power requirement Power consumption	are (Storage humidity) hts AC 100 V to 120 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50				
Operating temperations Storage temperation Power requiremen Power consumption (Mode: Standard	ure (Storage humidity)	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz	Hz / 60 Hz	Hz / 60 Hz		
Operating temperatures Storage temperature Power requirement Consumption (Mode: Standard / Middle) Power	AC 100 V to 120 V AC 100 V to 120 V AC 100 V to 120 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W	Hz / 60 Hz 470 W / 336 W	Hz / 60 Hz 416 W / 256 W		
Operating temperatures Storage temperature Power requirement Power Consumption (Mode: Standard / Middle) Power Consumption	AC 100 V to 120 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low")	Hz / 60 Hz 470 W / 336 W	Hz / 60 Hz 416 W / 256 W		
Operating temperatures Storage temperature Power requirement Power consumption (Mode: Standard / Middle) Power Consumption (Standby Mode) Power Consumption	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V AC 100 V to 120 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W 0.5 W (when "Standby mode" is set to 1.5 W (when "Standby mode" is when "Stand	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low")	Hz / 60 Hz 470 W / 336 W 455 W / 328 W	Hz / 60 Hz 416 W / 256 W 404 W / 252 W		
Operating temperatures Storage temperature Power requirement Power consumption Mode: Standard / Middle) Power Consumption (Standby Mode) Power Consumption (Networked Standby Mode)	AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W 0.5 W (when "Standby mode" is set to 5.0 W (LAN) / 17.4 W (HDBaseT) / 17.1 W (HDBaseT	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low") 0.4 W (ALL Terminals and Networks Co.	Hz / 60 Hz 470 W / 336 W 455 W / 328 W onnected, when "Standby Mode" is set	Hz / 60 Hz 416 W / 256 W 404 W / 252 W t to "Standard")		
Operating temperatures Storage temperature Power requirement Mode: Standard / Middle) Power Consumption (Standby Mode) Power Consumption (Standby Mode) Power Consumption (Networked Standby Mode)	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 100 V to 120 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W 0.5 W (when "Standby mode" is set 0.5 W (when "Standby mode" is set 15.0 W (LAN) / 19.4 W (HDBaseT) / 19.1 Hz (LAN) / 17.4 W (HDBaseT) / 17.1 Hz (LAN) /	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low") 0.4 W (ALL Terminals and Networks Col 1464 BTU/h	Hz / 60 Hz 470 W / 336 W 455 W / 328 W onnected, when "Standby Mode" is set 1604 BTU/h	Hz / 60 Hz 416 W / 256 W 404 W / 252 W t to "Standard") to "Standard")		
Operating temperatures Storage temperature Power requirement (Mode: Standard / Middle) Power Consumption (Standby Mode) Power Consumption (Networked Standby Mode) Heat dissipation	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W 0.5 W (when "Standby mode" is set 0.5 W (when "Standby mode" is set 15.0 W (LAN) / 19.4 W (HDBaseT) / 19.13.3 W (LAN) / 17.4 W (HDBaseT) / 17.1699 BTU/h 1648 BTU/h	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low") 0.4 W (ALL Terminals and Networks Collaboration of the Action of the Act	Hz / 60 Hz 470 W / 336 W 455 W / 328 W onnected, when "Standby Mode" is set	Hz / 60 Hz 416 W / 256 W 404 W / 252 W t to "Standard")		
Operating temperatures Fower requirement Power requirement Operation Oper	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W 0.5 W (when "Standby mode" is set 0.5 W (when "Standby mode" is set 15.0 W (LAN) / 19.4 W (HDBaseT) / 19.1 Hz (LAN) / 17.4 W (HDBaseT) / 17.1 Hz (LAN) /	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low") 0.4 W (ALL Terminals and Networks Collaboration of the Action of the Act	Hz / 60 Hz 470 W / 336 W 455 W / 328 W onnected, when "Standby Mode" is set 1604 BTU/h	Hz / 60 Hz 416 W / 256 W 404 W / 252 W t to "Standard") to "Standard")		
Operating temperatures Storage temperatures Power requirement (Mode: Standard / Middle) Power Consumption (Standby Mode) Power Consumption (Networked Standby Mode) Heat dissipation	AC 100 V to 120 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 0.5 W (when "Standby mode" is set 0.5 W (when "Standby mode" is set 15.0 W (LAN) / 19.4 W (HDBaseT) / 19. 13.3 W (LAN) / 17.4 W (HDBaseT) / 17. 1699 BTU/h 1648 BTU/h Approx. W 460 x H 169 x D 515 mm (v	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low") 0.4 W (ALL Terminals and Networks Collaboration of the Action of the Act	Hz / 60 Hz 470 W / 336 W 455 W / 328 W onnected, when "Standby Mode" is set 1604 BTU/h	Hz / 60 Hz 416 W / 256 W 404 W / 252 W t to "Standard") to "Standard")		
Operating temperatures Storage temperature Power requirement (Mode: Standard / Middle) Power Consumption (Standby Mode) Power Consumption (Networked Standby Mode) Heat dissipation Outside dimension	AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V AC 100 V to 120 V AC 220 V to 240 V AC 220 V to 240 V	-10°C to +60°C (14°F to +140°F) / 20% AC 100 V to 240 V, 5.0 A to 2.1 A, 50 Hz / 60 Hz 498 W / 346 W 483 W / 337 W 0.5 W (when "Standby mode" is set to 15.0 W (LAN) / 19.4 W (HDBaseT) / 17.1 13.3 W (LAN) / 17.4 W (HDBaseT) / 17.1 1699 BTU/h 1648 BTU/h Approx. W 460 x H 169 x D 515 mm (Without protrusions) Approx. 13 kg (28 lb)	to 80% (no condensation) AC 100 V to 240 V, 4.3 A to 1.8 A, 50 Hz / 60 Hz 429 W / 268 W 416 W / 261 W to "Low") 0.4 W (ALL Terminals and Networks Collaboration of the Action of the Act	Hz / 60 Hz 470 W / 336 W 455 W / 328 W onnected, when "Standby Mode" is set nnected, when "Standby Mode" is set 1604 BTU/h 1552 BTU/h	Hz / 60 Hz 416 W / 256 W 404 W / 252 W t to "Standard") to "Standard") 1419 BTU/h 1378 BTU/h		

^{*1} With supplied standard lens
*2 This figure is the expected maintenance time, not a 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.

Ultra Short Throw Optional Lens Kits (For ceiling)

VPLL-3003	PSS-	PSS-650P	
Projection Lens	Projector Susp	ension Support	Projector Suspension Support Joint Pole

When using the VPLL-3003 lens, it is recommended the use of PSS-650/650P.

VPLL-3003 Projection Lens

VPLL-3003 Projection Distance

Unit: m (inches)

Projection	image size									
Diagonal	Width x Height	L1	L2	L3	L4	L5	H1	H2	H3	H4
80-inch	1.72 x 1.08	0.55	0.66	0.41	-0.11	0.20	0.30	0.36	0.48	0.54
(2.03 m)	(67 7/8 x 42 3/8)	(21 1/2)	(26 1/8)	(16 1/8)	(-4 1/8)	(7 7/8)	(12)	(14)	(18 3/4)	(21 1/4)
100-inch	2.15 x 1.35	0.69	0.81	0.55	0.03	0.34	0.40	0.45	0.57	0.63
(2.54 m)	(84 3/4 x 53)	(27 1/8)	(31 3/4)	(21 5/8)	(1 3/8)	(13 1/2)	(15 3/4)	(17 3/4)	(22 1/2)	(24 7/8)
120-inch	2.58 x 1.62	0.83	0.95	0.69	0.18	0.48	0.49	0.54	0.66	0.73
(3.05 m)	(101 3/4 x 63 5/8)	(32 5/8)	(37 1/4)	(27 1/4)	(6 7/8)	(19)	(19 3/8)	(21 3/8)	(26 1/8)	(28 5/8)
150-inch	3.23 x 2.02	1.04	1.16	0.90	0.39	0.69	0.63	0.69	0.81	0.87
(3.81 m)	(127 1/4 x 79 1/2)	(41)	(45 5/8)	(35 1/2)	(15 1/4)	(27 3/8)	(25)	(27)	(31 3/4)	(34 1/8)
200-inch	4.31 × 2.69	1.39	1.51	1.25	0.74	1.05	0.87	0.92	1.04	1.10
(5.08 m)	(169 5/8 × 106)	(54 7/8)	(59 1/2)	(49 3/8)	(29 1/8)	(41 1/4)	(34 1/4)	(36 1/4)	(41)	(43 1/2)
300-inch	6.46 × 4.04	2.10	2.22	1.96	1.44	1.75	1.34	1.39	1.51	1.58
(7.62 m)	(254 3/8 × 159)	(82 5/8)	(87 1/4)	(77 1/8)	(56 7/8)	(69)	(52 7/8)	(54 3/4)	(59 1/2)	(62)

Projection Distance Formula

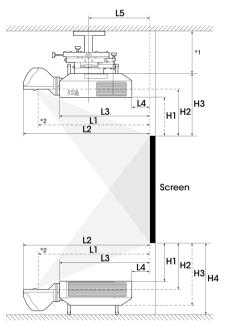
D: Projected image size (Diagonal)

D. FIOJ	Unit: mm (inches)
L1	L1 = 0.007053 × D - 0.016810 (L1 = 0.277674 × D - 0.661950)
L2	L2 = 0.007048 × D + 0.101010 (L2 = 0.277471 × D + 3.976810)
L3	L3 = 0.007048 × D - 0.154990 (L3 = 0.277471 × D - 6.101930)
L4	L4 = 0.007048 × D - 0.669990 (L4 = 0.277471 × D - 26.377520)
L5	L5 = 0.007048 × D - 0.363290 (L5 = 0.277471 × D - 14.302710)
H1	H1 = 0.004712 × D - 0.072000 (H1 = 0.185500 × D - 2.834650)
H2	H2 = 0.004712 × D - 0.021670 (H2 = 0.185500 × D - 0.853150)
Н3	H3 = 0.004712 × D + 0.099000 (H3 = 0.185500 × D + 3.897640)
H4	H4 = 0.004712 × D + 0.161500 (H4 = 0.185500 × D + 6.358270)

VPLL-3003 SPECIFICATIONS

		VPLL-3003	
Throw Ratio		0.33:1	
Zoom Ratio		_	
Screen Size		80" - 300"	
V. Shift *3		+/-5°	
H. Shift *3		+/-5°	
Zoom		_	
Focus		Powered	
Coner Correction		Powered	
F value		F1.85	
Focal Length		5.9mm	
Focus Quality *2		ARC-F	
Convergence Quality	*3	Required "Panel Alignment" adjustment	
Weight *1	Lens	2.9kg	
weight	Adaptor	_	
Dimentions *1 (WxHxE	0)	229×193.7×424.7mm	
Package Size *1 (LxWxH)		540x375x328mm	
3D Support		No	
Brightness Ratio *1 (10	00% = standard lens, widest zoom position)	88%	
Remarks		Convex from Cabinet: +256.1mm	

^{*1} Values are approximately



^{*1} See the operating instructions of the ceiling mount unit.

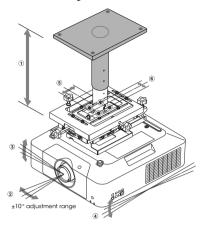
^{*2} depends on the attached model

 $^{^{\}star}$ 3 Based on the position of projection distance

^{*2} Center of the cover glass.

PSS-650 Projector Suspension Support / PSS-650P Projector Suspension Support Joint Pole

6 axis Adjustment Function for Easy Installation



1	1	 Up/down position 300 mm to 375mm (11 13/16 in. to 14 3/4 in.) 475 mm to 625 mm (18 11/16 in. to 24 19/32 in.) When using supplied extension pipe 650 mm to 2975 mm (25 19/32 in. to 117 1/8 in.) When using PSS-650P 25mm (31/32 in.) adjustment pitch
2		Horizontal angle of rotation: ±10°
3		Left/right tilt angle*: ±5°
4		Up/down tilt angle*: ±5°
5		Front/back position*: ±50 mm (1 31/32 in.)
6		Left/right position*: ±25 mm (31/32 in.)

^{*} Actual hours may vary depending on usage environment.

Overview of Height Adjustment Range

	-	_		
		Specification	Height adjustable range (25mm pitch adjustment)	Height adjustable range
joint Pole PSS-650P	+Joint pole PSS-650P x 2 sets	Inner pole 695 mm 695 mm 695 mm 695 mm	2975mm 1700mm	_
	+Joint pole PSS-650P	Inner pole 695 mm Outer pole 695 mm	1675mm 1000mm	
	+Joint pole PSS-650P *When cut the pole	Inner pole Outer pole 345 mm Cut 345 mm Cut *Specification cut position	975mm 650mm	
Ceiling mount PSS- 650	+Supplied extension Pole	Inner pole Outer pole	625mm 475mm	
	Ceiling mount PSS-650	7		*this 100mm interspace (475mm-375mm) can
			375mm 300mm	be covered by Lens shift

PSS-650/PSS-650P SPECIFICATIONS

		PSS-650	PSS-650P	
Adjustment range Up	o/down position	300~375mm / 11 13/16~14 3/4 inches 475~625 mm / 18 11/16~24 19/32 inches (with Supplied extension pole) (25mm adjustment pitch)	1,000~1,675 mm / 39 3/8~65 15/16 inches 650~975 mm / 25 19/32~38 3/8 inches (cut) 1,700~2,975 mm / 66 15/16~117 1/8 inches (x 2 units) (25mm adjustment pitch)	
	rizontal angle of ation	± 10 deg	_	
Lef	ft/right tilt angle	± 5 deg (Fine adjustment function with adjustment knob)	_	
Up	/down tilt angle	± 5 deg (Fine adjustment function with adjustment knob)	_	
Fro	nt/back position	± 50 mm / ± 1 31/32 inches	_	
		(Fine adjustment function with adjustment knob)		
Lef	ft/right position	\pm 25 mm / \pm 31/32 inch (Fine adjustment function with adjustment knob)	-	
Dimensions (W / H / D)		299 x Height* x 453.5 mm / 11 25/32 x H x 17 27/32 inches *Height: 300-375mm / 11 13/16-14 3/4 inches 475-625mm / 18 11/16-24 19/32 inches (with Supplied extension pole)	51 x 695 x 58.5 mm / 2 x 27 3/8 x 2 5/16 inches	
Dimensions (W x H x D) *without protrusions (Adjustment knob)		246 x Height* x 322 mm / 9 11/16 x H x 12 11/16 inches *Height: 300-375mm / 11 13/16-14 3/4 inches 475-625mm / 18 11/16-24 19/32 inches (with Supplied extension pole)	51 x 695 x 58.5 mm / 2 x 27 3/8 x 2 5/16 inches	
Mass		Approx. 8.6 kg / 19 lb	Approx. 2.2 kg / 4.8 lb	
Maximum load		30 kg / 66 lb	30 kg / 66 lb	
Optional accessories		PSS-650P	_	
Note		-	Max: up to 2 units connection	
Color		Black	Black	

SONY

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