SONY

VPL-FHZ65/FHZ60
3LCD Laser Projector

VPL-FH65/FH60
3LCD Installation Projector

Z-Phosphor
LASER LIGHT SOURCE

3LCD

BrightEra™
Long Lasting Optics

HDMI

HDBaseT™

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 virtually any commercial, academic, large-scale, and entertainment application. The VPL-FHZ65 and VPL-FHZ60 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 and VPL-FH60 projectors offer cost-effective options that nevertheless deliver high-quality performance. You can choose brightness of 6,000 lumens (VPL-FHZ65 and VPL-FH65) or 5,000 lumens (VPL-FHZ60 and VPL-FH60) 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 images. 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-FHZ65 and VPL-FHZ60) 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-FHZ65 and VPL-FHZ60 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 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 0.65:1 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 four projectors (the laser VPL-FHZ65 and VPL-FHZ60 and the lamp VPL-FH65 and VPL-FH60) can fit smoothly into almost any environment – from entertainment venues to academic institutions to corporate spaces.
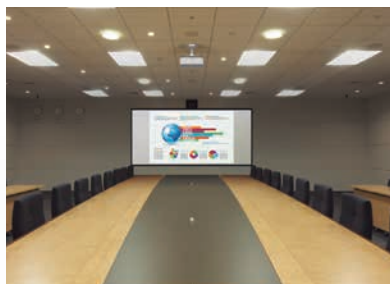
For business

For education

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

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-FHZ65 and VPL-FHZ60 projectors generate a powerful 6,000 lumens and 5,000 lumens respectively of color light output at WUXGA 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.
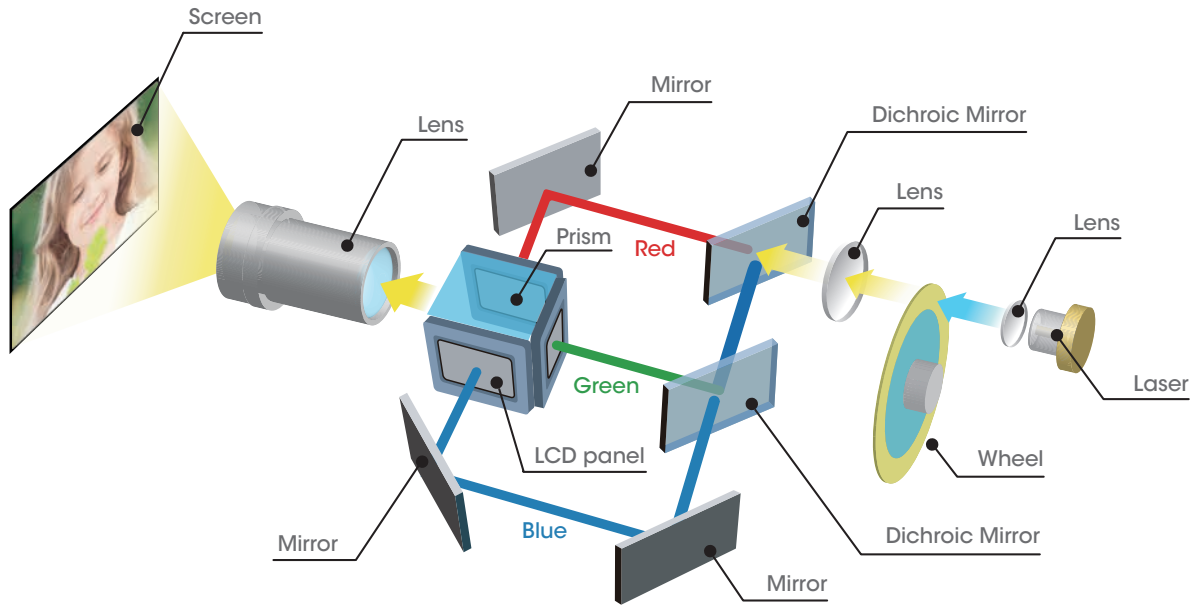
Crisp, Detail-packed WUXGA Resolution Images

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.
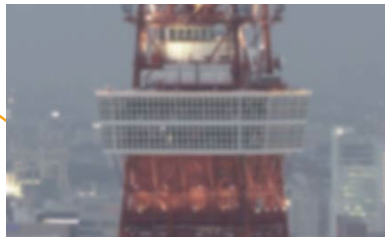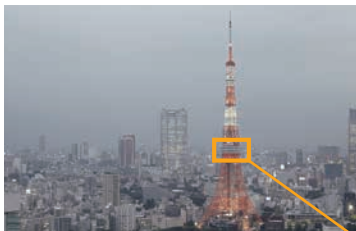
WXGA picture quality

WUXGA picture quality

Simulated images
Licensed by Tokyo Tower
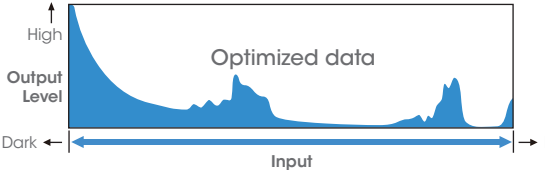
Advanced Picture Refinement Technologies

• See Extreme Clarity in Every Pixel

Developed for Sony's home theater projectors, the Reality Creation function has now been adapted for the VPL-FHZ65, VPL-FHZ60, VPL-FH65 and VPL-FH60. It reproduces the texture and color of the original WUXGA signal by restoring missing information lost during packaging of the original contents to disk and broadcast transmission.

Analyze every pixel in any direction	Sony's proprietary algorithm	"Reality Creation" pixel mapping
Input signal		Get the best possible images

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.

High — Output Level — Original data — Dark ← → Bright — Input

High — Output Level — Optimized data — Dark ← → Bright — Input

Simulated images

Good TCO & Energy Efficient

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-FHZ65 and VPL-FHZ60) 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.
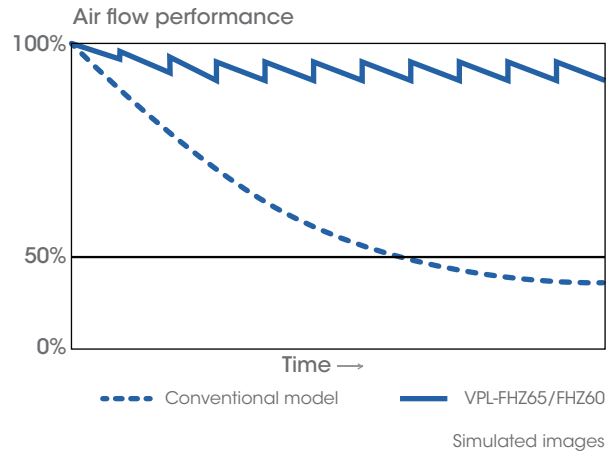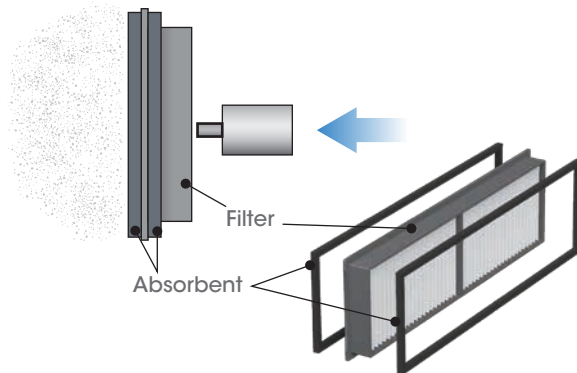
* Actual hours may vary depending on usage environment.

VPL-FHZ65/FHZ60   VPL-FH65/FH60

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.

Filter

Absorbent

Air flow performance

100%

50%

0%

Time →

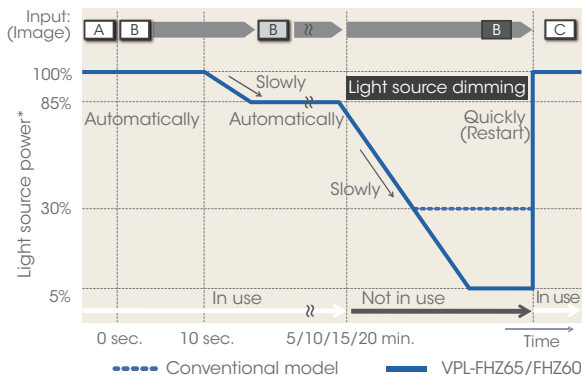- - - - Conventional model   ——— VPL-FHZ65/FHZ60

Simulated images

Energy-efficient Functions

VPL-FHZ65/FHZ60

• 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-FHZ65 and VPL-FHZ60 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.

Input:
(Image) A B   B   B   C

100%
85%   Slowly   Light source dimming
     Automatically Automatically   Quickly
                                               (Restart)

                    Slowly
30%

5%   In use   Not in use   In use

0 sec. 10 sec.   5/10/15/20 min.
                                  Time
Light source power*

- - - - Conventional model   ——— VPL-FHZ65/FHZ60

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

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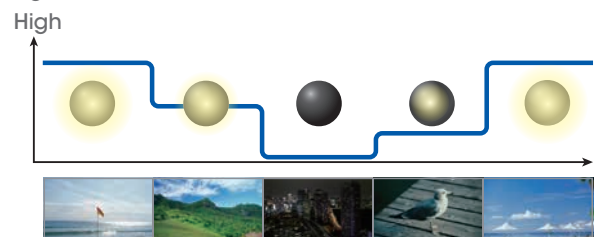
Simulated images

VPL-FHZ65/FHZ60

• 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.
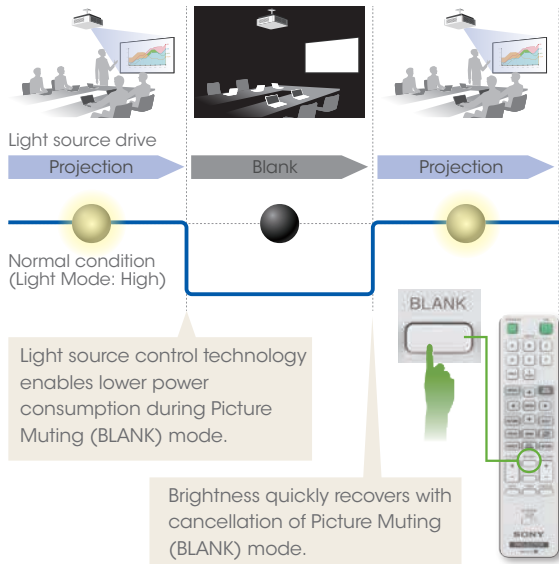
Light source drive

High

Simulated images

• 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.

Light source drive

| Projection | Blank | Projection |

Normal condition
(Light Mode: High)

Light source control technology enables lower power consumption during Picture Muting (BLANK) mode.

Brightness quickly recovers with cancellation of Picture Muting (BLANK) mode.

BLANK

SONY

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 vertically by -32% to +32% and horizontally 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.

5%

32%

32%

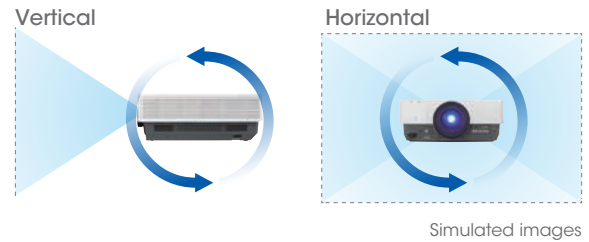60%

* 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.

Tilt Angle-free

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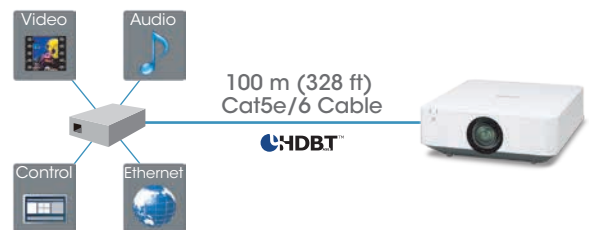
Vertical   **Horizontal**

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 boxes.
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.
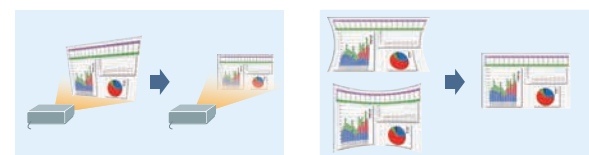
Video   Audio

100 m (328 ft)
Cat5e/6 Cable

HDBT

Control   Ethernet

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.
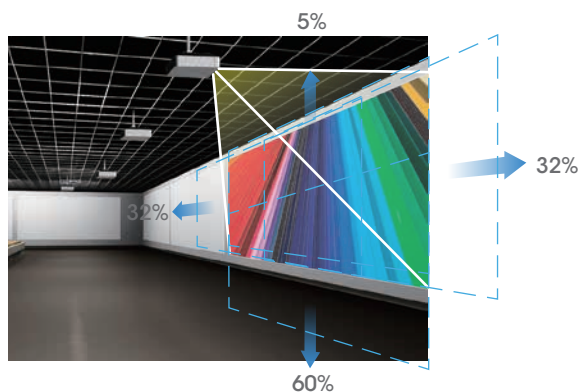
Four corners correction   Four sides correction

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

VPL-FHZ65/FHZ60   VPL-FH65/FH60

Super Quiet Operation Noise

The VPL-FHZ65 and VPL-FHZ60 are industry's quietest[1] laser-phosphor projectors. Low fan noise[2] ensures discreet, unobtrusive operation in quiet environments, from museums and galleries to lecture theaters.

[1] As of June 2015

[2] VPL-FHZ65/FHZ60: 34 dB/28 dB (Light Mode: High/Standard)
   VPL-FH65/FH60 : 35 dB/28 dB (Lamp Mode: High/Standard)

VPL-FHZ65/FHZ60   VPL-FH65/FH60

Professional Color Calibration

The projectors offer a Color Correction feature which enables Hue, Saturation and Brightness adjustment on six target color zones (red, green, blue, yellow, cyan and magenta).

| Hue | Saturation | Brightness |

Simulated images

The projectors also offer multiple color space modes with R/G/B individual color coordinate adjustment capability, to best suit the application and content.

User Advantages

VPL-FHZ65/FHZ60

## Constant Brightness Mode for Stable Projection

Constant brightness mode allows brighteness to be maintained 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-FHZ65/FHZ60

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.
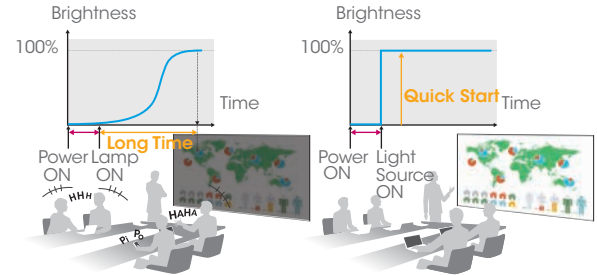
Conventional lamp model   VPL-FHZ65/FHZ60

Simulated images

VPL-FHZ65/FHZ60   VPL-FH65/FH60

Picture Mode

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

VPL-FHZ65/FHZ60   VPL-FH65/FH60

Simple Setup with Friendly New Installation Menu

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

VPL-FHZ65/FHZ60   VPL-FH65/FH60

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.

VPL-FHZ65/FHZ60   VPL-FH65/FH60

Closed Captioning

Official teletext broadcasting, developed by the NCI, USA

VPL-FHZ65/FHZ60   VPL-FH65/FH60

Network and Control

Controls and monitors projector status
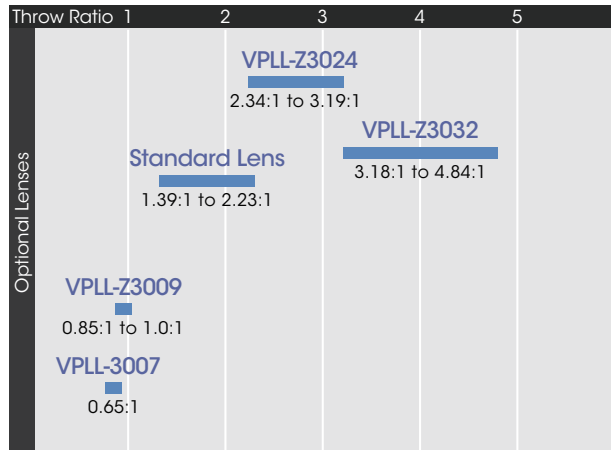Compatible with various control systems

OPTIONAL LENSES

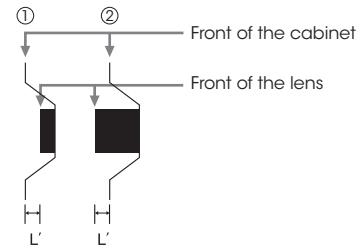| Projection lens	VPLL-3007	VPLL-Z3009	VPLL-Z3024	VPLL-Z3032
Throw ratio	0.65:1	0.85:1 to 1.0:1	2.34:1 to 3.19:1	3.18:1 to 4.84:1
Zoom / Focus	— / Manual	Manual / Manual	Powered / Powered	Powered / Powered
Lens shift	Vertical: Upward 10% to Downward 5% Horizontal: Right 4% to Left 4%	Vertical: Upward 50% to Downward 5% Horizontal: Right 24% to Left 24%	Vertical: Upward 60% to Downward 5% Horizontal: Right 32% to Left 32%	Vertical: Upward 60% to Downward 5% Horizontal: Right 32% to Left 32%
Aperture	f/1.75	f/1.85 to 2.1	f/2.00 to 2.30	f/2.00 to 2.40
Screen size*	60″ to 300″	60″ to 300″	40″ to 600″	40″ to 600″
Dimensions	W 150 x H 150 x D 222 mm	W 150 x H 150 x D 217 mm	W 97 x H 105 x D 177 mm	W 97 x H 105 x D 177 mm
Weight	1.7 kg	1.7 kg	1.2 kg	1.2 kg

* Viewable area, measured diagonally.

LENS THROW RATIO CHART

Throw Ratio	1	2	3	4	5

Optional Lenses

VPLL-Z3024
2.34:1 to 3.19:1

VPLL-Z3032
3.18:1 to 4.84:1

Standard Lens
1.39:1 to 2.23:1

VPLL-Z3009
0.85:1 to 1.0:1

VPLL-3007
0.65:1

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

Unit: mm (inches)

Lens	L′	Type
Standard lens	1.2 (1/6)	②
VPLL-3007	52.4 (2 1/16)	②
VPLL-Z3009	51.2 (2 1/32)	②
VPLL-Z3024	9.9 (3/8)	②
VPLL-Z3032	9.9 (3/8)	②

① ② — Front of the cabinet
— Front of the lens

L′   L′

INSTALLATION DIAGRAM

Unit: m (inches)

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

Projection distance L

Projected image

Front of the lens
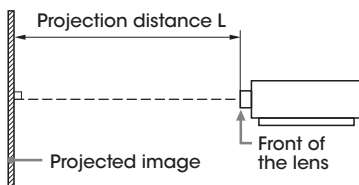
PRESET SIGNAL CHART
Computer Signal

Resolution	fH [kHz]/ fV [Hz]	Input connector	
		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	●	—
640 x 480	31.5/60	●	●
	35.0/67	●	—
	37.9/73	●	—
	37.5/75	●	—
	43.3/85	●	—
800 x 600	35.2/56	●	—
	37.9/60	●	●
	48.1/72	●	—
	46.9/75	●	—
	53.7/85	●	—
832 x 624	49.7/75	●	—
1024 x 768	48.4/60	●	●
	56.5/70	●	—
	60.0/75	●	—
	68.7/85	●	—
1152 x 864	64.0/70	●	—
	67.5/75	●	—
	77.5/85	●	—
1152 x 900	61.8/66	●	—
1280 x 960	60.0/60	●	●
	75.0/75	●	—
1280 x 1024	64.0/60	●	●
	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	●	●
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

Video Signal

Signal	fV [Hz]	Input connector		
		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.

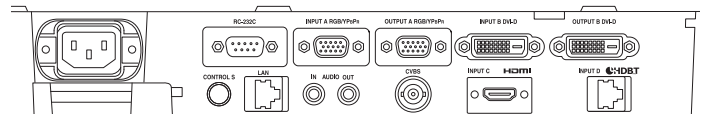# OPTIONAL ACESSORIES

LMP-F370
Projector Lamp for the VPL-FH65
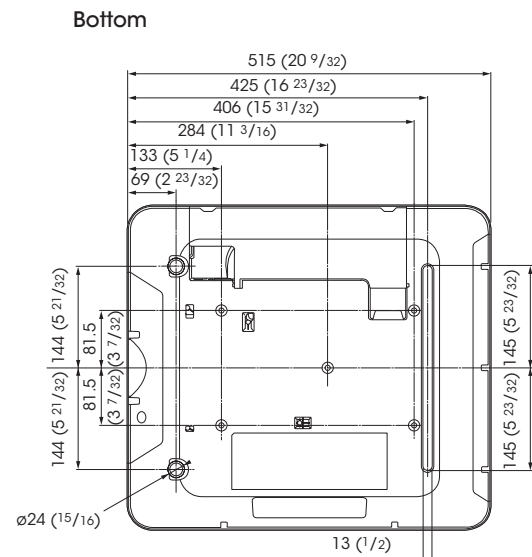
LMP-F280
Projector Lamp for the VPL-FH60

PAM-600
Ceiling Mount Bracket

CONNECTOR PANELS

DIMENSIONS

Front

Unit: mm (inches)

460 (18 1/8)
175 (6 7/8)
169 (6 21/32)
97 (3 13/16)
230 (9 1/16)
Center of the lens

Bottom

515 (20 9/32)
425 (16 23/32)
406 (15 31/32)
284 (11 3/16)
133 (5 1/4)
69 (2 23/32)
144 (5 21/32)
81.5 (3 7/32)
81.5 (3 7/32)
144 (5 21/32)
145 (5 23/32)
145 (5 23/32)
ø24 (15/16)
13 (1/2)
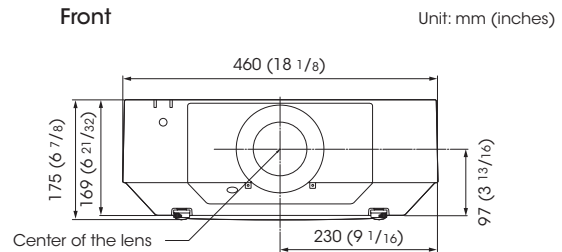
SPECIFICATIONS

		VPL-FHZ65	VPL-FHZ60	VPL-FH65	VPL-FH60
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			
Projection lens*1	Zoom	Powered (Approx. x 1.6)			
	Focus	Powered			
	Lens shift	Powered, Vertical: -5%, +60%, Horizontal: +/32%			
	Throw ratio	1.39:1 to 2.23:1			
Light source		Laser diode		High pressure mercury lamp 370 W type	High pressure mercury lamp 280 W type
Recommended lamp replacement time*2		—		3,000 H / 4,000 H (Lamp mode: High / Standard)	
Filter cleaning / replacement cycle (Max.)*2		20,000 H (service maintenance)			
Screen size		40" to 600" (1.02 m to 15.24 m) (measured diagonally)			
Light output (Mode: High / Standard)		6,000 lm / 4,000 lm	5,000lm / 3,500lm	6,000lm / 4,400lm	5,000lm / 3,200lm
Color light output (Mode: High / Standard)		6,000 lm / 4,000 lm	5,000lm / 3,500lm	6,000lm / 4,400lm	5,000lm / 3,200lm
Contrast ratio*3 (full white / full black)		10,000:1		2,000:1	
Displayable scanning frequency	Horizontal	15kHz to 92kHz			
	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, 1080/60i, 1080/50i The following items are available for digital signal only; 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)			
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	DVI input connector: DVI-D 24-pin (single link), HDCP support			
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support			
	INPUT D	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)			
	VIDEO IN	Video input connector: BNC, Audio input connector: Shared with input A			
	OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female), Audio output connector: Stereo mini jack			
	OUTPUT B	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported, Audio output, Monitor out connector: Stereo mini jack			
Control signal input/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 (Mode: High / Standard)		34 dB / 28 dB		35 dB / 28 dB	
Operating temperature (Operating humidity)		32°F to 104°F (0°C to 40°C) / 20% to 80% (no condensation)			
Storage temperature (Storage humidity)		14°F to +140°F (-10°C to +60°C) / 20% to 80% (no condensation)			
Power requirements		AC 100 V to 240 V, 5.5 A to 2.3 A, 50 Hz / 60 Hz	AC 100 V to 240 V, 4.5 A to 1.9 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 (Mode: High / Standard)	AC 100 V to 120 V	509 W / 298 W	420 W / 272 W	498 W / 346 W	429 W / 268 W
	AC 220 V to 240 V	492 W / 283 W	408 W / 266 W	483 W / 337 W	416 W / 261 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	15.0 W (All terminals and networks connected, when "Standby Mode" is set to "Standard")			
	AC 220 V to 240 V	13.3 W (All terminals and networks connected, when "Standby Mode" is set to "Standard")			
Heat dissipation	AC 100 V to 120 V	1737 BTU/h	1433 BTU/h	1525 BTU/h	1280 BTU/h
	AC 220 V to 240 V	1679 BTU/h	1393 BTU/h	1484 BTU/h	1242 BTU/h
Outside dimensions		Approx. W 18 1/8 x H 6 3/5 x D 20 3/8 in (W 460 x H 169 x D 515 mm) (without protrusions)			
Weight		Approx. 34 lb (16 kg)		Approx. 13 kg (28 lb)	
Supplied accessories		RM-PJ27 Remote Commander (1), Size AA (R6) batteries (2), AC Power Cord (1), Plug holder*5 (1), Terminal cover (1), Quick Reference Manual (1), Operating Instructions (CD-ROM) (1)			
Replacement lamp		—		LMP-F370	LMP-F280

*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.
*5 VPL-FHZ65/VPL-FHZ60

LASER NOTICES
IEC 60825-1:2007

LASER RADIATION
AVOID DIRECT EYE EXPOSURE   IEC60825-1:2007
CLASS 3R LASER PRODUCT
WAVE LENGTH:450-460nm
MAX OUTPUT < 250mW

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

IEC 60825-1:2014