

## VPL-FH31

4,300 lumens WUXGA 3LCD  
Installation projector



### Overview

#### **High brightness and low maintenance - great performance for any environment**

The VPL-FH31 is designed to fit smoothly into almost any environment where a high-quality projector is required. Its brightness, zoom and throw range, coupled with its wide lens shift range, mean it can perform where other projectors would struggle - even in high ambient light.

Once installed, the VPL-FH31 has excellent image capabilities and a long lifespan that delivers low Total Cost of Ownership. Sony's BrightEra technology improves and maintains colour purity throughout the life of the system by protecting the LCD panels against harmful ultra violet light. Clever features such as synchronised lamp and filter replacement cycles reduce costs and downtime.

Featuring the usual wide range of features, the VPL-FH31 also allows for edge blend (multiple projectors with seamless connection), warping and Portrait mode installation for retail, corporate signage applications. Other features include advanced projection capabilities such as side-by-side image projection and DICOM medical training, the VPL-FH31 is an obvious projector choice for venues that demand quality, unique installation locations and practicality.

VPLFH31/W is a white model.

## Features

### **3 LCD WUXGA BrightEra Panel Technology**

Sony's BrightEra Panel Technology gives more accurate colour rendition, higher brightness and longer lifespan for a lower Total Cost of Ownership.

### **Ultra High Resolution**

The VPL-FH31's WUXGA (1920x1200) 16:10 format resolution delivers absolute best image quality.

### **Very High Brightness: 4,300 Lumens Colour Light Output**

With very high brightness of 4,300 Lumens Colour Light Output, the VPL-FH31 gives a clearer image in high ambient light, making it highly suitable for larger venues.

### **Wide Zoom Range (x1.6) and Throw Ratio (1.4 to 2.3) as standard**

The standard lens has a wide zoom capability and throw ratio, offering more flexibility over the positioning of the projector, which can be installed closer to or further away from the screen

### **Wide Lens Shift Range: Vertical: +60%, Horizontal: +/- 32%**

The VPL-FH31's wide lens shift range means that the projector can be positioned closer to the ceiling, or horizontally offset to avoid ceiling obstacles.

### **Long Lamp Replacement Time: 3,000-4,000 hours (High/Std)**

Longer lamp life means fewer visits by maintenance personnel and lower Total Cost of Ownership.

### **Lamp/Filter Replacement Cycles Synchronised**

Synchronised lamp and filter replacement effectively halves the number of visits needed to maintain the projector in peak operating condition.

### **Interchangeable Lenses: Z1024, Z1032**

The VPL-FH31 allows you to choose different lenses for increased flexibility.

### **Edge Blend**

Multiple VPL-FH31 projectors have the ability to project a single seamless image onto a screen (wall) creating an exciting visual event, or retail or corporate signage application.

### **Warping Projection**

Warping projection allows the customer to adjust the corners and sides of a VPL-FH31 projected image to any convex or concave screen set up or wall for dynamic signage displays.

### **Portrait Mode**

The VPL-FH31 can be installed on its side (fan side down) for any portrait signage application.

### **Side by Side Image Projection**

Side by side twin image gives you the ability to project from two inputs (RGB + any other Input) at the same time, making the projector ideal for applications like video conferencing and DICOM medical training.

### **DICOM GSDF Simulation**

The VPL-FH31 offers DICOM GSDF Simulation (HDMI with computer signals), which conforms to GSDF (Grayscale Standard Display Function) of medical standards for DICOM (Digital Imaging and Communication in Medicine).

### **Wide Range of Image Adjustments**

This wide range of image adjustments allows the projector to be installed in almost any location. Where equipment is being

upgraded, installers are more likely to be able to use existing mounts. In new installations, they are more likely to be able to work around existing obstructions.

### User Panel Alignment

Pixel alignment shifts the entire image or desired range (H: 16 X V: 10 pixels) for complete colour correction.

### Colour Matching

The VPL-FH31 offers brightness and colour matching adjustment to the original image for complete image accuracy.

### Lower Operating Power Consumption than Previous Models

Lower operating power consumption helps reduce energy consumption and lowers running costs.

## Specifications

### Display system

Display system	3 LCD system
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### Display device

Size of effective display area	0.76”(19.3 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10
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Number of pixels	6,912,000 (1920 x 1200 x 3) pixels
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### Projection lens\*1

Focus	Manual
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Zoom - Powered/Manual	Manual
Zoom - Ratio	Approx. x 1.6
Throw ratio	1.39:1 to 2.23:1
Lens shift - Powered/Manual	Manual
Lens shift - Range Vertical	+60%
Lens shift - Range Horizontal	+/- 32%

## Light source

Type	Ultra high pressure mercury lamp
Wattage	330 W type

## Recommended lamp replacement time\*2

Lamp mode: High	3000 H
Lamp mode: Standard	4000 H

## Filter cleaning / replacement cycle\*2 (Max.)\*2

Filter cleaning /	15000 H (Cleaning) Same as the
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replacement cycle\*2      lamp replacement is  
(Max.)                              recommended

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## Screen size\*1

Screen size                      40" to 600" (1.02 m to 15.24 m)  
(measured diagonally)

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## Light output

Lamp mode: High              4300 lm

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Lamp mode: Standard      3400 lm

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## Color light output

Lamp mode: High              4300 lm

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Lamp mode: Standard      3400 lm

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## Contrast ratio (full white / full black)\*3

Contrast ratio (full  
white / full black)\*3          2000:1

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## Displayable scanning frequency

Horizontal                      14 kHz to 93 kHz

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Vertical                          47 Hz to 93 Hz

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Vertical

41 Hz to 55 Hz

## 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, 1080/60p, 1080/50p, 1080/24p

## Color system

Color system      NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60

## Keystone correction (Max.)\*8

Vertical      +/- 30 degrees

Horizontal      +/- 30 degrees

## OSD language

OSD language      23-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese,

Traditional Chinese, Korean, Thai,  
Vietnamese, Arabic, Farsi,  
Indonesian, Finnish, Hungarian)

## INPUT OUTPUT (Computer/Video/Control)

INPUT A	<p>RGB / YPbPr input connector: 5BNC (female)</p> <p>Audio input connector: Stereo mini jack</p>
INPUT B	<p>RGB input connector: Mini D-sub 15-pin (female)</p> <p>Audio input connector: Stereo mini jack (shared with INPUT C)</p>
INPUT C	<p>DVI-D input connector: DVI-D 24- pin (Single link), HDCP support</p> <p>Audio input connector: Stereo mini jack (shared with INPUT B)</p>
INPUT D	<p>HDMI input connector: HDMI 19- pin, HDCP support</p>
S VIDEO IN	<p>S video input connector: Mini DIN 4-pin</p> <p>Audio input connector: Pin jack (x2) (shared with VIDEO IN)</p>
VIDEO IN	<p>Video input connector: Pin jack</p> <p>Audio input connector: Pin jack (x2)</p>



	(shared with S VIDEO IN)
OUTPUT	Monitor output connector*5: Mini D-sub 15-pin (female) Audio output connector*6: Stereo mini jack (variable out)
REMOTE	RS-232C connector: D-sub 9-pin (female)
LAN	RJ-45, 10BASE-T/100BASE-TX
IR (Control S)	Control S input connector: Stereo mini jack

## Acoustic noise

Lamp mode: Standard 30 dB

## Operating temperature / Operating humidity

Operating temperature / Operating humidity 0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)

## Storage temperature / Storage humidity

Storage temperature / Storage humidity -20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)

## Power requirements

Power requirements	AC 100 V to 240 V, 4.0 A to 1.6 A, 50/60 Hz
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## Power consumption

AC 100 V to 120 V	Lamp mode: High: 400 W
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AC 100 V to 120 V	Lamp mode: High: 380 W
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## Power Consumption (Standby Mode)

AC 100 V to 120 V	0.2 W (when "Standby mode" is set to "Low")
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AC 220 V to 240 V	0.3 W (when "Standby mode" is set to "Low")
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## Power Consumption (Networked Standby Mode)

AC 100 V to 120 V	9.2 W (LAN) (when "Standby Mode" is set to "Standard")
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AC 220 V to 240 V	10.4 W (LAN) (when "Standby Mode" is set to "Standard")
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## Standby Mode / Networked Standby Mode

## Activated

Standby Mode /  
Networked Standby Mode Activated      After about 10 Minutes

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## Heat dissipation

AC 100 V to 120 V      1365 BTU/h

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AC 220 V to 240 V      1297 BTU/h

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## Dimensions (W x H x D)

Dimensions (W x H x D)      Approx. 390 x 134 x 463 mm (15  
(without protrusions)      11/32 x 5 9/32 x 18 7/32 inches)

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## Mass

Mass      Approx. 8.3 kg (18 lb)

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## Supplied accessories

Remote commander      RM-PJ19

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## Optional accessories

Replacement lamp      LMP-F272

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Projection lenses	VPLL-Z2009/Z1024/Z1032/2007
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Projection lens adapter	PK-F30LA1
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## Notes

*1	With supplied standard lens
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*2	This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.
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*3	The value is average.
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*4	Available for VESA Reduced Blanking signal.
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*5	From INPUT A and INPUT B.
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*6	Works as an audio switcher function. Output from a selected channel; not available in standby.
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Environmental notice for customers in the	Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information,
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USA

please contact your local  
authorities or see  
[www.sony.com/mercury](http://www.sony.com/mercury) for  
additional information.

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## Gallery



