SONY

VPL-FHZ70

5,500 lm (6,000 lm center) WUXGA laser light source projector

Overview

With advanced image technologies for high contrast presentations and installation-friendly features

The compact, elegantly styled VPL-FHZ70 laser projector showcases cutting-edge Sony picture innovations and installation-friendly features - making it ideal for high brightness projection applications in midsize corporate, education and public environments.

The projector's long-lasting laser light source and newly-developed 0.76-inch 3LCD panel with incorporated optical compensator are augmented by powerful Reality Creation and colour processing technologies by Sony. This ensures exceptionally high-contrast images with WUXGA resolution, true-to-life colour and very high 5,500 lumens brightness - ideal for delivering lectures and presentations with extra audience engagement.

Leveraging its long-term experience in laser projector development and analysis, Sony's Intelligent Setting function simplifies installation, offering four pre-sets that adjust brightness, cooling system, colour and other projector settings for optimal performance in meeting/classrooms, museums, entertainment venues and multi-screen setups.

With its compact 'blend-in' design and widest vertical lens shift range in its class, the VPL-FHZ70 is ideal for installation even in limited spaces, while extra flexility's provided with accurately-proportioned projection onto angled surfaces.

Features

High contrast, very high quality 5,500 lumen images
The laser is complemented by a newly-developed 0.76-inch LCD panel with incorporated optical compensator. Combined with powerful signal processing technology, this ensures vivid images with crisp detail, ∞:1 contrast and natural, accurate colour reproduction.

Advanced picture refinement technologies
Picture quality is boosted by Sony's unique super resolution Reality Creation technology which uses a powerful pattern-matching database to optimise lower-resolution images, enhancing image clarity without increasing digital picture noise.

Intelligent Settings
Leveraging its long-term experience in laser projector development and analysis, Sony's Intelligent Settings offer four presets, optimising brightness, cooling system and other projector settings to suit all usage environments - simplifying installation for busy system integrators.

Wide Lens Shift
The industry’s widest lens shift* capability of Vertical +70% gives greater flexibility for positioning the projector, and ensures that presenters or visitors aren’t distracted by the projector's light source.
*In the range of 5000-6500 lm. As of 5th February 2019, according to Sony research.

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 requirements. New quick-release bayonet mount simplifies lens exchange.

Constant Brightness
Constant Bright maintains the same brightness throughout the 20,000 hours recommended lifespan.

Slim, attractive blend-in design
The slim, stylish body 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.

Up to 20,000 hours* operation with virtually no maintenance
The advanced laser light source offers up to 20,000 hours* operation without lamp exchange, reducing lifetime running costs compared with traditional projectors.
*Actual hours may vary depending on usage environment.

Hassle-free automatic filter cleaning
Focus on great-looking images instead of arduous maintenance tasks: automated filter cleaning system removes dust every 100 hours.

Create super-size displays with Edge Blending
Seamlessly join accurately colour-matched images from multiple projectors, simplifying creation of stunning super-size displays for corporate and education.

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

Networked control and monitoring
The projector is ideal for integration in AV environments with leading networked control, monitoring and management systems such as Crestron Connected™ and newly added Extron® XTP™ Systems.*
*Extron and XTP Systems are trademarks of RGB Systems Inc.

Specifications

Display system	
Display system	3 LCD system

Display device	
Size of effective display area	New LCD panel 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	Powered
Zoom - Powered/Manual	Powered
Zoom - Ratio	Approx. x 1.6
Throw ratio	1.39:1 to 2.23:1
Lens shift - Powered/Manual	Powered
Lens shift - Range Vertical	-5%, +70%
Lens shift - Range Horizontal	+/- 32%

Light source	
Type	Laser diode

Filter cleaning / replacement cycle (Max.)*2	
Filter cleaning / replacement cycle (Max.)	20000 H (service maintenance)

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

Light output *3	
Mode: Standard	5500 lm *4 / 6000 lm (Center)*5
Mode: Middle	4400 lm
Mode: Low	-

Colour light output *3	
Mode: Standard	5500 lm
Mode: Middle	4400 lm
Mode: Low	-

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

Displayable scanning frequency	
Horizontal	15 kHz to 92 kHz
Vertical	48 Hz to 92 Hz

Accepted signal resolution	
Computer signal input	Maximum signal resolution: 1920 x 1200 *6
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

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

Keystone correction (Max.)	
Horizontal	+/- 30 degrees
Vertical	+/- 30 degrees

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	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with INPUT A
INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
INPUT D	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
REMOTE	D-sub 9-pin (male) / RS232C
LAN	RJ45, 10BASE-T/100BASE-TX
IR (Control S)	Stereo mini jack, Plug in power DC5V

Acoustic Noise *3	
Lamp mode: Middle	36 dB

Operating temperature / Operating humidity	
Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)

Storage temperature / Storage humidity	
Storage temperature / Storage humidity	-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)

Power requirements	
Power requirements	AC 100 V to 240 V, 4.9 A to 2.0 A, 50 Hz / 60 Hz

Power consumption	
AC 100 V to 120 V	Mode: Standard: 483 W
AC 220 V to 240 V	Mode: Standard: 468 W

Power consumption (Networked Standby Mode)	
AC 100 V to 120 V	16.0 W (LAN) 20.7 W (HDBaseT) 20.7 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
AC 220 V to 240 V	13.3 W (LAN) 18.7 W (HDBaseT) 18.7 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")

Standby Mode / Networked Standby Mode Activated	
Standby Mode / Networked Standby Mode Activated	Approx. 10 Minutes

Heat dissipation	
AC 100 V to 120 V	1648 BTU/h
AC 220 V to 240 V	1597 BTU/h

Dimensions (W x H x D)	
Dimensions (W x H x D) (without protrusions)	460 x 169 x 515 mm 18 1/8 x 6 21/32 x 20 9/32 inches

Mass	
Mass	Approx. 16 kg (34 lb)

Optional accessories	
Projection Lens	VPLL-3003 / 3007 / Z3009 / Z3010 / Z3024 / Z3032

Notes	
*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 figures are approximate. They vary depending on the environment or how the projector is used.
*4	The value is in accordance with ISO 21118, and may differ depending on the actual unit. Brightness and contrast vary depending on use conditions and environments.
*5	The value is light output measured at centre area of screen in Standard mode, and average of all products shipped.
*6	Available for VESA Reduced Blanking signal.