SONY

Introducing maintenance-free 3LCD laser projectors

Your complete Sony laser projector toolkit

VPL-PHZ10, VPL-PWZ10, VPL-FHZ58, VPL-FHZ61, VPL-FHZ66, VPL-FHZ700L, VPL-FHZ90L & VPL-FHZ120L



We've put together this handy toolkit to guide you through our innovative, laser projector line-up. You'll see links to all the tools and resources featured throughout, but for more content, including full product specs, please visit **pro.sony/laser**

The laser story

In 2013, we publicly unveiled the **world's first** 3LCD laser projector. Offering users up to 20,000 hours of lamp-free operation with virtually no maintenance, it was our first product to the market after years of extensive research and development. One year later followed the **world's brightest** laser projector, the VPL-FHZ700L at 7,000 lumens. To date, we're still the only manufacturer offering 3LCD BrightEra[™] laser projectors for corporate and education users.

Info tool

Enduring brightness

Read our article for an overview of laser light source projection

pro.sony/ enduring-brightness





Groundbreaking laser technology

Sony's true laser light engine starts with 100% laser light, directed at a spinning phosphor wheel that glows bright white. Light from the phosphor wheel is then concentrated towards Sony's BrightEra™ 3LCD panels and this unique combination of both laser and 3LCD inorganic technology provides a much higher level of brightness and colour reproduction; outperforming any previous hybrid laser or LED projector. All the models in our line-up offer instant brightness with no warm-up time, continuous high performance for up to 15 years*, 360° free-angle installation and a host of energy saving features, making them a perfect investment for any environment requiring a high performance, cost-effective projection solution.

*Actual hours may vary depending on usage and environment

Key features

Sony's 3LCD laser projectors at a glance

- Energy efficient, low maintenance, low TCO
- Pioneering technology heritage: world's first and world's brightest
- Superb picture quality: unique 3LCD/Blue phosphor technology

Info tool

Lamp or laser? Projector technologies compared

Read our article and compare.

pro.sony/lamp-or-laser

Driving laser innovation

We're proud of our laser innovations and are determined to push the boundaries to further develop our technology. Our latest models take laser a step further by incorporating Reality Creation and Contrast Enhancer features from our advanced Home Cinema projector technology for an even sharper image.

Info tool

Laser hub

Learn more about our full laser projector line-up and access all the resources at the laser hub

pro.sony/laser

The laser market

For environments requiring constant projector use, laser is the clear choice. With virtually no maintenance, it's cost-effective for a broad range of applications including universities, large auditoriums, corporate boardrooms, museums and retail. Edge-blending delivers large scale, stunning projection for greater impact. For environments where usage may be less, Sony's UHP based projectors are the ideal choice, incorporating the same BrightEra[™] technology, same chassis, brightness, colour quality, features and performance.



VPL-PHZ10, VPL-PWZ10, VPL-FHZ58, VPL-FHZ61, VPL-FHZ66, VPL-FHZ90L & VPL-FHZ120L laser projector features

- Reality Creation: analyses and enhances image quality for a crisper, sharper picture
- Contrast Enhancer: automatically adjusts dark and light areas without diminishing colour in real time
- HDBaseT: single cable port for simpler installation covering longer distances (up to 100m)
- Bayonet lenses: 3000 series, and upgrade compatible adaptor for 2000 and 1000 lens series

Info tool

3LCD laser in action



Take a look at our case studies for laser installations:

- Historyland, Poland pro.sony/eu-HistoryLand-casestudy
- Helsinki University pro.sony/ Helsinki-university

When to choose laser over UHP

When it's mission critical that the projector never fails, laser is the clear, reliable choice. Unlike traditional UHP lamp projectors (including dual-lamp projectors), the light source in our laser models never requires replacement or the same level of maintenance, so there's no downtime or interruptions to meetings or lectures. It means you can expect up to 20,000 hours of continuous, bright performance with virtually no maintenance, and no bulbs to add to your purchasing costs.

White paper:



a detailed insight into our 3LCD laser projection technology

pro.sony/laser-whitepaper

Checklist

Laser vs UHP

Laser 3LCD outperforms UHP lamp projectors on many counts:

- Longer life: Up to 15 years operation*
- **Constant brightness:** Maintain constant brightness for the expected operational life for a consistent visual experience.
- Economical: No maintenance or downtime, no lamp replacement
- Eco-friendly: No mercury, no lamp and instant on/off
- Easy: Simple, 360° installation
- *Actual hours may vary depending on usage and environment



5

Compare the key features of our complete laser projector range to help identify the right model for your needs:

			VPL-PHZ10	VPL-PWZ10		
Light output / Colour light output	3 LCD system		•	•		
Size of effective display area	0.76" (19.3 mm) x 3 E	BrightEra LCD Panel	•	•		
	WUXGA: 6,912,000 (1920 x 1200 x 3) pixels	•			
Number of pixels Size of effective display area	WXGA: 3,072,000 (12	80 x 800 x 3) pixels		•		
size of effective alophay area	Aspect ratio: 16:10		•	•		
	Zoom		Manual (Ap	pprox. x1.45)		
	Focus		Manual			
Projection lens	Lens shift		Manual (Vertical: +20%~+55%, Horizontal: +/- 10%)			
	Throw ratio		1.28–1.88.1			
	Focal length(mm) / Aperture		f=21.37mm - 31.25mm f/ 1.50-1.95			
ight source	Tocurrengin(min) /	iperture		Phosphor		
Filter cleaning			20,000 H			
Light /Colour output 1		High	5,000 lm			
	Lamp mode:	Standard	4,000 lm			
		Low	3000 lm			
Contrast ratio (full white / full black	k) *2		· · · · · · · · · · · · · · · · · · ·	000:1		
Key stone correction (Max) *3			Horizontal: +/-30 degree	es Vertical: +/-20 degrees		
ower requirements			AC 100 V to 240 V, 4.3 /	A to 1.7 A, 50 Hz / 60 Hz		
ipeaker			16W (m	nonaural)		
Nicolay coopping fragments	Horizontal		15 kHz t	to 92 kHz		
visplay scanning frequency	Vertical		48 Hz 1	to 92 Hz		
	Computer signal inp	ut	Maximum display reso	olution: 1920 x 1200 dots		
Display scanning frequency			NTSC. PAL. SECAM. 480/60i. 576/50i	480/60p, 575/50p, 720/60p, 720/50p,		
	Video signal input			1080/60p, 1080/50p		
Colour system			NTSC3.58, PAL, SECAM, NTS	SC4.43, PAL-M, PAL-N,PAL-60		
			English, French, German, Italian, Spanish, Portugu	iese, Japanese, Chinese(簡・繁), Korean, Russian,		
OSD language	27-languages		Dutch, Norwegian, Swedish, Thai, Arabic ,Turkish, Po	olish, Vietnamese, Farsi, Finnish, Indonesian, Hungar		
			Gleek, Czech, Slovakia, Romania			
Operating Instructions languages			English, Germany, French, Italy, Spanish, Russian, Simplified Chinese, Japanese, Arabic			
	INPUT A		RGB / Y PB PR input connector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack			
	INPUT B		HDMI input connector: HDMI 19-pin, Digital RGB/YPBPR, HDCP support, HDMI audio support			
	INPUT C		HDMI input connector: HDMI 19-pin, Digital RGB/YPBPR, HDCP support, HDMI audio support			
	INPUT D		HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN (100BASE-TX), RS-232C)			
INPUT OUTPUT (Computer / Video /Control)	VIDEO IN		Video input connector: Phono Jack Aud	lio input connector: Shared with INPUT A		
computer / video / control)	OUTPUT		Audio output conne	ector: Stereo mini jack		
	REMOTE		D-sub 9-pin (male) / RS232C			
	LAN		RJ45,100BASE-TX (Shared with HDBaseT)			
	USB		TYPE-A / TYPE-B			
	High		36dB			
Acoustic noise *4	Lamp mode:	Standard		3dB		
	Lump model	Low		5dB		
Operating temperature / Operating	humidity	LOW	0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)			
			-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)			
Storage temperature / Storage hur	maily	115-14				
Power consumption		High	424 W	399 W		
AC 100 V - 120 V	Lamp mode:	Standard	287 W	266 W		
		Low	217 W	198 W		
Power consumption AC 220 V - 240 V		High	403 W	377 W		
	Lamp mode:	Standard	279 W	256 W		
		Low	211 W	193 W		
Power consumption (when "Standby mode" is set to "Low") Power Consumption (Networked Standby Mode)	AC 100 V to 120 V		0.5 W	0.5 W		
	AC 220 V to 240 V		0.5 W	0.5 W		
	AC 100 V to 120 V		369W	342W		
	AC 220 V to 240 V		353W	328W		
	AC 100 V/ to 120 V		12.5W(LAN) / 13.2W (optional WLAN module) / 16.8W(HDBaseT)/17.4W			
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V		(ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")			
	AC 220 V to 240 V		11.9W(LAN) / 12.6W (optional WLAN module) / 17.0W(HDBaseT)/17.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")			
On mode power consumption	AC 100 V to 120 V		369W	342W		
	AC 220 V to 240 V		353W	328W		
leat dissipation	AC 100 V to 120 V		1446BTU	1361BTU		
AC 220 V to 240 V			1374BTU	1286BTU		
Body Colour (Colour Code)	White/Gray		•	•		
Dimensions (W x H x D)			Approx. 510 x12	28.5 x 354.6mm		
Outside Dimensions (W x H x D) (without protrusions)			Approx. 510 x 113 x 354.6 mm			
Mass			Approx	x. 8.7 kg		
				AC power cord, Operating instructions (CD-ROM),		
Supplied accessories			Quick Reference Manual, Warranty card, Secu	rity label, Flyers (WEEE) / (EU battery direction),		
Detter familie and	f ali			tware (CD-ROM)		
Battery for the remote commander	r of the projector		Lithium Batte	ry / CR2025 / 1		
The values are estimates. This value is average with lamp dimmine			*3 The picture quality may deteriorate when the \ *4 The figures are approximate. They vary dependent	V Keystone function is used for it is an electrical correction.		

*2 This value is average with lamp dimming.

*4 The figures are approximate. They vary depending on the environment or how the projector is used.

			VPL-FHZ58	VPL-FHZ61	VPL-FHZ66			
Display system	3 LCD		•	•	•			
	0.76" (19 mm) x 3 Bi	ightEra LCD Panel, Aspect ratio: 16:10	•	•				
Size of effective display area	0.95" (24.1 mm) x 3	BrightEra LCD Panel, Aspect ratio 16:10			•			
Number of pixels	6,912,000 (1920 x 12		•	•	•			
	Focus			Powered				
	Zoom - Powered/Manual		Powered Powered					
Projection lens*1								
	Zoom - Ratio		Approx. x1.6					
	Throw Ratio		1.39:1 to 2.23:1					
	Powered/Manual		Powered					
Lens shift	Range Vertical		-5% / +60% *5					
	Range Horizontal		+/- 32% *5					
Light source	Туре		Laser diode					
Filter cleaning*2				20,000 H				
Screen size			40'' to 600''	' (1.02 m to 15.24 m) (measured	l diagonally)			
	High		4200 lm	5100 lm	6100 lm			
Light output	Lamp mode:	Standard	3000 lm	3500 lm	4000 lm			
		High	4200 lm	5100 lm	6100 lm			
Colour light output	Lamp mode:	Standard	3000 lm	3500 lm	4000 lm			
Contrast ratio (full white / full black)*3				500,000:1				
	Horizontal			15 kHz to 92 kHz				
Displayable scanning frequency	Vertical			48 Hz to 92 Hz				
		**4			IOO data			
Display resolution	Computer signal input*4		Maximum display resolution: 1920 x 1200 dots NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p,					
	Video signal input		1080/60i, 1080/50i The following items are available for digital signal (HDMI input only; 1080/60P, 1080/50p, 1080/24p					
Colour System			NTSC3.58, P/	AL, SECAM, NTSC4.43, PAL-M, P	AL-N, PAL60			
Koustone correction (Max.)	Vertical		+/- 30 degrees					
Keystone correction (Max.)	Horizontal		+/- 30 degrees					
OSD language	24-languages		man, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, nese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek					
	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)					
INPUT OUTPUT	VIDEO IN		Video input connector: BNC, Audio input connector: Shared with input A					
(Computer / Video /Control)	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					
			RI45, 10BASE-T/100BASE-TX					
			KI45, IUBASE-17 IUUBASE-1X Stereo mini jack, Plug in power DC5V					
Acoustic poico	IR (Control S)	Standard						
Acoustic noise	Lamp mode:	Standard		dB	32 dB			
Operating temperature / Operating humidity			0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)					
Storage temperature / Storage humidity			-20°C to +60°C / -4°F to +140°F / 20% to 80% (no condensation)					
Power requirements				AC 100 V to 240 V, 50 Hz / 60 H				
Power consumption Lamp mode: High	AC 100 V to 120 V	High	367 W	420 W	515 W			
	AC 220 V to 240 V	High	352 W	408 W	497 W			
Power consumption (when "Standby	AC 100 V to 120 V		0.5 W					
mode" is set to "Low")	AC 220 V to 240 V		0.5 W					
Power Consumption (Networked	AC 100 V to 120 V		15.0 W (LAN) 19.4 W (HDBaseT) 19.4 W					
Power Consumption (Networked "Standby Mode" is set to "Standard")	AC 220 V to 240 V		13.3 W (LAN) 17.4 W (HDBaseT) 17.4 W					
Standby Mode / Networked Standby Mode Activated			Approx. 10 Minutes					
Standby Wode / Networked Standby Md			10E0 DTU //-		1707 071 1 /-			
Heat dissipation	AC 100 V to 120 V		1252 BTU/h	1433 BTU/h	1757 BTU/h			
AC 220 V to 240 V			1201 BTU/h	1392 BTU/h	1696 BTU/h			
Dimensions (W x H x D) (without protrusions)			Approx. 460 x 169 x 515 mm, 18 1/8 x 6 21/32 x 20 9/32 inches					
		Mass			16 kg (34 lb)			
Mass								
	Remote commande	er		RM-PJ27				
Mass	Remote commande	r	PAM 31		M-1.5M			

*1 With supplied standard lens
*2 This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.
*3 The value is average.
*4 Available for VESA Reduced Blanking signal.

Display system	3 LCD		VPL-FHZ700L	VPL-FHZ90L	VPL-FHZ120L	
		Era, Aspect ratio 16X10	•	•	•	
ize of effective display Irea		LCD Panel, Aspect ratio: 16:10	-	•	•	
lumber of pixels	T X 5 DIIGHEIA	teo ranei, Aspectrato. 10.10	6	,912,000 (1920 x 1200 x 3) pixels		
	Focus			Powered		
	Zoom - Powere	d/Manual		Powered		
Projection lens*1	Zoom - Ratio		Approx. x1.6	Approx	(x1 5	
	Throw Ratio		1.38 to 2.06			
	Powered/Manu	2	1.36 t0 2.00	1.30:1 to 1.95:1		
Lens shift	Range Vertical		+/- 110%		10%	
Lens shint	Range Horizont			+/- 99%		
	-	di	+/- 57% +/- 51%			
Light source	Туре		Laser diode			
Laser life *4	Light output mo	ode: Standard	20,000 H			
Filter cleaning / replacem	ent cycle (Max.) *3		20,000 H	10,000 H (service		
Auto filter cleaning			1011	•	•	
Screen size (Max)				600" (depending on projection		
Light output ¹²	Standard		7000 lm	9,000 lm	12,000 lm	
Colour light output ^{*2}	Standard		7000 lm	9,000 lm	12,000 lm	
Constant brightness *2 *4			.8000:1	co:1	∞:1	
Contrast ratio (full white /	full black)		.8000:1	∞:1	∞:1	
Colour calibration				•	•	
Colour space '2	Picture mode: s	RGB	-	-	sRGB 100%	
Power functions	Quick power on		-	Yes (Picture: a	pprox. 7 sec)	
long functions	Bayonet lens at	tachment function		•	•	
Lens functions	Lens position m	emory function		•	•	
Displayable scanning	Horizontal		14 KHz to 93 KHz	15 kHz to	92 kHz	
£	Vertical		47 Hz to 93 Hz	48 Hz to		
	Computer signa	al input		m display resolution: 1920 x 120		
Disalas as alstina						
Display resolution	Video signal inp	but	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60 1080/50i (The following items are available for digital signal (HDMI input) only; 1080/60			
				1080/50p, 1080/24p)		
Colour System			NTSC3.58, P/	AL, SECAM, NTSC4.43, PAL-M, PA	L-N, PAL60	
Keystone correction	Vertical			+/- 30 degrees		
(Max.) *1*5	Horizontal +/- 30 degrees					
OSD language	24-languages	English, Dutch, French, Italian, German, Spanish, Portuguese, Turki	sh, Polish, Russian, Swedish, Norv	vegian, Japanese, Simplified Chi	nese, Traditional Chines	
OSD language	24-languages	Korean, Thai, Vietnamese,	Arabic, Farsi, Finnish, Indonesian,	Hungarian, Greek		
	INPUT A RGB / Y P8 PR input connector: SBNC (female)					
	INPUT B		RGB input connector: Mini D-sub 15-pin (female)			
	INPUT C		DVI input connector: DVI-D 24-pin (single link), HDCP support			
	INPUT D		HDMI input connector: HDMI 19-pin, HDCP support			
		Optional adaptor slot (HDBaseT or 3G-SDI Adaptor)	•			
	INPUT E	HDBaseT interface connector: RJ45, 3 play (Video, LAN, Control)		•	•	
		(BKM-PJ10 or BKM-PJ20)	•			
(Computer / Video / Control)	INPUT F	Optional adaptor slot (For 3G-SDI Input Adaptor BKM-PJ20)			•	
,	INPUT G	USB Port: HTML Viewer Type-A x 1		•	•	
		Monitor output Connector. Mini D-sub 15-pin (female)	•			
	OUTPUT A	Monitor output for Input A	-			
		Input B Connector: Mini D-sub 15-pin (female)		•	•	
	REMOTE			D-sub 9-pin (male) / RS232C		
	LAN		RJ45, 10BASE-T/100BASE-TX	RJ45, 10BASE-T/100BASE-TX	/1000BASE-T/1000BASE	
Acoustic noise	Lamp mode:	Standard	39		42 dB	
		F to 104°F) / 35% to 85% (no condensation)	•			
Operating temperature / Operating humidity		F to 109°F) / 20% to 80% (no condensation)	-	•	•	
		-4°F to +140°F) / 10% to 90% (no condensation)	•			
Storage temperature / Storage humidity		14°F to +140°F) / 20% to 80% (no condensation)	-	•	•	
Power requirements				AC 100 V to 240 V	•	
	AC 100 V/ 100	N	407.141.4.404.141		000.00	
Power consumption	AC 100 V to 120 V		497 W / 404 W	657 W	909 W	
amp mode: High	AC 220 V to 240		476 W / 387 W	641 W	878 W	
			12.2 W / 0.1 W 0.50 W 8.4 W / 0.5 W 0.50 W			
Power consumption	AC 100 V to 120	AC 220 V to 240 V		0.50	W	
Power consumption				•	•	
Power consumption (Standby mode) Power Consumption	AC 220 V to 240	V 21.6W (LAN) 26.5W (HDBT) 26.6W				
Power consumption (Standby mode) Power Consumption (ALL Terminals and	AC 220 V to 240		•			
Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode"	AC 220 V to 240	21.6W (LAN) 26.5W (HDBT) 26.6W	•	•	•	
Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode"	AC 220 V to 240 AC 100 V to 120 V	21.6W (LAN) 26.5W (HDBT) 26.6W 12.2 W (LAN) 13.8 W (optional HDBaseT adaptor) 13.8 W	•	•	•	
Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")	AC 220 V to 240 AC 100 V to 120 V AC 220 V	21.6W (LAN) 26.5W (HDBT) 26.6W 12.2 W (LAN) 13.8 W (optional HDBaseT adaptor) 13.8 W 21.3W (LAN) 26.5W (HDBT) 26.6W		• White, Black	•	
Lamp mode: High Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard") Body colour Dimensions (W x H x D)	AC 220 V to 240 AC 100 V to 120 V AC 220 V to 240 V	21.6W (LAN) 26.5W (HDBT) 26.6W 12.2 W (LAN) 13.8 W (optional HDBaseT adaptor) 13.8 W 21.3W (LAN) 26.5W (HDBT) 26.6W		• White, Black	•	
Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard") Body colour Dimensions (W x H x D)	AC 220 V to 240 AC 100 V to 120 V AC 220 V to 240 V	21.6W (LAN) 26.5W (HDBT) 26.6W 12.2 W (LAN) 13.8 W (optional HDBaseT adaptor) 13.8 W 21.3W (LAN) 26.5W (HDBT) 26.6W 8.4 W (LAN) 10.0 W (optional HDBaseT adaptor) 10.0 W (H 204 x D 545 mm x 169 x 515 mm, (18 1/8 x 6 21/32 x 20 9/32 in)	•	• White, Black	•	
Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard") Body colour Dimensions (W x H x D) (without protrusions)	AC 220 V to 240 AC 100 V to 120 V AC 220 V to 240 V	21.6W (LAN) 26.5W (HDBT) 26.6W 12.2 W (LAN) 13.8 W (optional HDBaseT adaptor) 13.8 W 21.3W (LAN) 26.5W (HDBT) 26.6W 8.4 W (LAN) 10.0 W (optional HDBaseT adaptor) 10.0 W (H 204 x D 545 mm x 169 x 515 mm, (18 1/8 x 6 21/32 x 20 9/32 in)	•	•	•	
Power consumption (Standby mode) Power Consumption (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")	AC 220 V to 240 AC 100 V to 120 V AC 220 V to 240 V	21.6W (LAN) 26.5W (HDBT) 26.6W 12.2 W (LAN) 13.8 W (optional HDBaseT adaptor) 13.8 W 21.3W (LAN) 26.5W (HDBT) 26.6W 8.4 W (LAN) 10.0 W (optional HDBaseT adaptor) 10.0 W H 204 x D 545 mm x 169 x 515 mm, (18 1/8 x 6 21/32 x 20 9/32 in) 05 x 564 mm	•			

*1 Specfications based on VPL-Z4111 (VPL-FHZ90L & VPL-FHZ120L)
 *2 The values are estimate.
 *3 This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.

*4 The figures are approximate. They are dependent on the environment or how the projector is used.
*5 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

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