





UPL-PX31/PX21
LCD DATA PROJECTOR

Keys to Powerful Presentations

- provided by the Sony VPL-PX31/PX21 LCD Projector

Visuals

Leave a lasting impression.

With 2800 ANSI lumens, it is easy to see your presentation in any environment. And the APA, 3D Gamma Correction, RGB Enhancer, and Digital Keystone features will make your pictures look their best.

Audio

Complete the experience.

A three-way stereo speaker system will support your visuals.

Presentation tools

Make life easier for you and your audience.

PROJECTOR STATION™ software, USB functions keys, Digital Zoom, and a laser pointer will help you make your presentations run smoothly. And keep your audience involved. Your main presentation tool – your projector – should go unnoticed. The VPL-PX31/PX21 is almost silent.

Flexibility

With wide installation capabilities.

The VPL-PX31/PX21 can be mounted on a ceiling, on a floor or installed in a rear projection system. Combined with a choice of three optional lenses, it has the flexibility to be used in a wide range of installations. An extensive array of inputs lets you choose what signal to use.

For Powerful Presentations . . . the VPL-PX31/PX21





Picture Quality

Brightness and Resolution

With the newly developed Sony LCD panels and a 200 W UHP lamp, the VPL-PX31 offers an outstanding brightness of 2800 ANSI lumens, while the VPL-PX21 provides an impressive 1800 ANSI lumens. You can project a high-quality, high-contrast image, even in high ambient light conditions.





The VPL-PX31 and VPL-PX21 both utilize three 1.3-inch XGA LCD panels. The details of the original images are maintained, while rich and natural colors are reproduced.

APA (Auto Pixel Alignment)

Dot phase and image size or shift can be automatically adjusted to their optimal settings just by pressing the APA button.

3D Gamma Correction

The 3D Digital Gamma correction circuit provides superb gray scale reproduction and, at the same time, helps to improve overall picture uniformity.

RGB Enhancer

For a crisp RGB image, the VPL-PX31/PX21 is equipped with an RGB Enhancer function. A simple adjustment provides heightened image quality to match any image source – whether text, photos, or graphics.

Effective Presentations

The VPL-PX31/PX21 makes effective presentations as simple as possible with a variety of advanced features. And with fan noise of less than 34 dB, the VPL-PX31/PX21 also makes your presentations as silent as possible.

Digital Zoom

The VPL-PX31/PX21 is equipped with a 4-times Digital Zoom that is easily controlled via the supplied RM-PJM610 remote control unit. With Digital Zoom, you can focus in on a section of your presentation for more detail.

USB Capability

The VPL-PX31/PX21 is USB-ready and can serve as a USB hub for daisychain connection of multiple devices. It can be controlled from a PC on which the supplied PROJECTOR STATION version 2.0 software has been installed.

PROJECTOR STATION SOFTWARE

- Promoting greater integration between projector and computer



PROJECTOR STATION* software from Sony will make your presentations go off without a hitch. Not only does this software let you control the VPL-PX31/PX21 from your computer, it also helps you organize your presentation materials for quicker access, using the two function keys on the remote control unit.

* PROJECTOR STATION version 2.0 software requirements: Microsoft* Windows* 98, Windows* 98 SE or Windows* 2000 operating system.

Help Menu

The on-screen Help Menu of the VPL-PX31/ PX21 will assist in trouble-shooting during operation. Easy-to-follow prompts will guide you to the solution of your problem.



Remote Control Unit

The laser pointer-equipped remote control unit lets you direct your audience's attention and guide them through your presentation.



RM-PJM610 remote control unit

Stereo Sound

A three-way speaker system provides stereo sound to complement your presentation visuals.



Flexibility

The VPL-PX31/PX21 is designed for use in a variety of environments. Even with its portable design, it functions equally well when installed for ceiling, floor, or rear projection use.

Optional Lenses

Three optional lenses are available, giving you the ability to customize the VPL-PX31/PX21 to perfectly suit your projection environment.



VPLL-FM21

- Fixed short focus lens
- Throw ratio*: 0.9:1



- 1.1 times zoom short focus lens
- Throw ratio: 1.55-1.62:1



VPLL-ZM101

- 1.5 times zoom long focus lens
- Throw ratio: 3.35-4.9:1

Lamp Power Selection

The lamp power of the VPL-PX31/PX21 is selectable via the on-screen Lamp Mode menu. When set to LOW, lamp life is approximately doubled and fan noise is further reduced. Yet the VPL-PX31 still produces an impressive 2100 ANSI lumens. When set to LOW, the VPL-PX21 produces 1350 ANSI lumens.

Digital Keystone

Keystone distortion, caused when the projection angle is not properly calibrated, can be easily corrected within the wide adjustment range of +/- 20 degrees via the on-screen menu.

Signal Support

For added versatility, the VPL-PX31/PX21 accepts a wide range of input signals: Composite Video, S Video, Y/R-Y/B-Y, YPBPR, and RGB, with a horizontal frequency of 15 to 91 kHz and a vertical frequency of 43 to 85 Hz. Anticipating the move from analog to digital, a Digital RGB input has also been added. Finally, to meet the

demands of DTV, a variety of digital signals (480/60P, 575/50P, 1080/50I, 720/60P, 720/50P) are also fully supported.



On-Screen Display

The on-screen display menu is available in seven languages.



^{*}Throw ratio is the distance between the center of the projector lens and the screen, divided by the screen width.

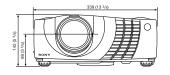
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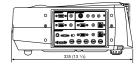
Specifica	UUNS					
Model		VPL-PX31	VPL-PX21			
Optical	Projection system	3 LCD panels, 1 len	s projection system			
	LCD panel	1.3-inch p-Si TFT Sony LCD panel 2	,359,296 pixels (786,432 pixels x 3)			
		with Micro Lens Array				
	Projection lens	Approx. 1.3 times zoom lens,	F1.7 to 2.0, f36.7 to 47.8 mm			
	Lamp	200 W UI				
	Screen coverage	40 to 300 inches (viewable	area, measured diagonally)			
	Light output	2800 ANSI lumens*1	1800 ANSI lumens			
Signals	Color system	NTSC, PAL, SECAM, NTSC4.43, PAL-M, I				
	Resolution	Video: 750 TV lines, R				
	Acceptable signals	RGB (fH 15 to 91 kF				
		15 kHz component 50/60 Hz system, I				
		DTV (480/60P, 575/50P, 1080/50I, 720/60				
General	Cabinet color	Silky				
	Speaker	Max. 5 W Wide freque				
		Woofer: 65 mm (2 ⁵ / ₈ inc				
		Tweeter: 45 mm (1 ³ / ₁₆ inches)				
	Power requirements	100 to 240				
	Power consumption	Max. 290 W, Standby 5 W,				
	Operating temperature	0 to 40 °C (3				
	Operating humidity	35 to				
	Dimensions	13 ³ / ₈ (W) x 5 ⁵ / ₈ (H) x 13 ¹ / ₄ (D) inches (339 (W) x 142 (H) x 335 (D				
	Weight	Approx. 15 lb 14 oz (7.2 kg)				
	Heat dissipation	989.6 BTU Less than 34 dB (when lamp mode set to LOW: 30 dB)				
nnuta/Out	Fan noise	Less than 34 dB (when lam	o mode set to LOW: 30 dB)			
nputs/Outpu		Dhona tima 101/ 2	dB cure pogetive 35 0			
VIDEO IN	Composite Y/C IN	Phono type, 1.0 Vp-p ±2				
	Y/C IN Y	Mini DII				
	Y C	1.0 Vp-p ±2 dB sy				
INPUT A		Burst 0.286 Vp-p ±2 dB (NTSC), 79 HD D-sub 15 pin (female)/5 BNC (
INPUTA	Analog RGB					
		HD D-sub 15				
	R G	0.7 Vp-p ±2 dB				
	G with Sync	0.7 Vp-p ±2 dB 1.0 Vp-p ±2 dB sy				
	B Willi Sylic	0.7 Vp-p ±2 dB sy				
		0.7 VP-P ±2 UB	positive, 75 sz			
	SYNC/HD Composite sync	1.0 to 5.0 Vp-p, high imp	adanca positiva/pagativa			
	Horizontal sync	1.0 to 5.0 Vp-p, high imp				
	VD	1.0 to 5.0 vp-p, nightinp	edance positive/negative			
	Vertical sync	1.0 to 5.0 Vp-p, high imp	edance positive/pegative			
	Analog RGB/Component	5 BNC (
	R/R-Y/PR	0.7 Vp-p ±2 dB				
	G	0.7 Vp-p ±2 dB 0.7 Vp-p ±2 dB				
	G with Sync/Y	1.0 Vp-p ±2 dB sy				
	B/B-Y/PB	0.7 Vp-p ±2 dB sy				
	SYNC/HD	0.7 VP P 12 GE	positive, 70 as			
	Composite sync	1.0 to 5.0 Vp-p, high imp	edance positive/negative			
	Horizontal sync	1.0 to 5.0 Vp-p, high imp				
	VD	1.0 to 5.0 vp p, mgm mp	edunce positive/negative			
	Vertical sync	1.0 to 5.0 Vp-p, high imp	edance positive/negative			
	Digital RGB	DFP 20-pi				
	USB HUB	Up (B type: female) x 1, [
	MOUSE IN	Square 13-				
	AUDIO IN	Stereo mini jack, 500 mV rms,				
INPUT B	Analog RGB	HD D-sub 15				
	R	0.7 Vp-p ±2 dB				
	G	0.7 Vp-p ±2 dB				
	G with Sync	1.0 Vp-p ±2 dB sy				
	В	0.7 Vp-p ±2 dB				
	SYNC/HD					
	Composite sync	1.0 to 5.0 Vp-p, high imp	edance positive/negative			
	Horizontal sync	1.0 to 5.0 Vp-p, high imp	edance positive/negative			
	VD		·			
	Vertical sync	1.0 to 5.0 Vp-p, high imp	edance positive/negative			
	MOUSE IN	Square 13-				
	AUDIO IN	Stereo mini jack, 500 mV rms,				
OUTPUT	MONITOR OUT*2	HD D-sub 15	-pin (female)			
		R/R-Y, G/Y, B/B-Y	: Gain Unity, 75 Ω			
		SYNC/HD, VD: 4.0 Vp-p	(open), 1.0 Vp-p (75 Ω)			
	AUDIO OUT (Variable out)	Stereo mini jack, max. 1 V rms, when the input s				
REMOTE	RS-232C	D-sub 9-p				
CONTROL S IN	·/	Stereo n	nini jack			
PLUG IN POW		5.0 Vp-p, plug ir				
Safety regula	ations	UL1950, cUL1950, DHHS (Laser), FCC (
, , ,		CE, EN 60 825-1 (Laser), C-Tio				
aser beam	Laser type	Clas				
	Wavelength	645	nm • • • • • • • • • • • • • • • • • • •			
	Output	1 n				
Supplied		JM610, Monitor Cable (2 m): HD D-sub 15-p	in to HD D-sub 15-pin, Mouse Cable (2 r			
accessories		2 (for PS/2), Audio Visual Cable (1.5 m), USE				
		PROJECTOR STATION version 2.0, AA size E				
		der, Air Filter, Operating Manual, Quick Refer				
ANISI lumone is		rican National Standards Institute IT7 220 *	DIOITAL DOD : III I I II II			

*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228. *2 DIGITAL RGB signal is not output from the MONITOR OUT terminal. *3 Not available in some areas. For details, please contact your nearest Sony office.

Dimensions

Unit: mm (inches)





Input Signal Procet Data

Input Signal Preset Data									
No.	Resolution	fH (kHz)	fV (Hz)	H/V					
1	Video 60 Hz		59.940						
2	Video 50 Hz		50.000	-					
3	15 K RGB/Com		59.940	SonG					
4	15 K RGB/Com	15.625	50.000	SonG					
5	HDTV								
_	1035&1080/601			60.000					
6	640x350	VGA-VEGA-05		70.086					
7	(40, 400	VGA VESA 85		85.080					
8	640x400	NEC PC98		56.416	_				
9		VGA-2/VESA 70	-	70.086	_				
10	(40, 400	VGA VESA 85		85.080					
11	640x480	VGA VESA 60		59.940					
12		Mac 13		66.667					
13		VGA VESA 72		72.809	-				
14		VGA VESA 75		75.000					
15	000 /00	VGA VESA 85		85.008	-				
16	800x600	SVGA VESA 56		56.250					
17		SVGA VESA 60		60.317					
18		SVGA VESA 72		72.188					
19		SVGA VESA 75		75.000					
20	000 /04	SVGA VESA 85		85.061					
21	832x624	Mac 16		74.550	-				
22	1024x768	XGA VESA 43		43.479					
23		XGA VESA 60		60.004					
24		XGA VESA 70		69.955					
25		XGA VESA 75		75.029					
26	1150.074	XGA VESA 85		84.997					
27	1152x864	SXGA VESA 70		70.019					
28 29		SXGA VESA 75 SXGA VESA 85		75.000					
	1152x900	SUN LO		85.057 65.960					
30 31	1152X900	SUN HI			_				
	1280x960	SXGA VESA 60		76.047 60.000					
32	1280X900	SXGA VESA 75							
	1200-1024			75.000					
34	1280x1024	SXGA VESA 43		43.436					
35		SGI-5		50.062					
36		SXGA VESA 60		60.013					
37		SXGA VESA 75	_	75.025					
38 43	D. Component	SXGA VESA 85	91.146	85.024	P/P				
	P. Component 480/60P	480/60P(2x NTSC)		60.000					
	575/50P	575/50P(2x PAL)		50.000	SonG				
45	1080/501	1080/501		50.000					
47	720/60P	720/60P		60.000					
48	720/50P	720/50P	37.500	50 000					

Optional Accessories

Projector Lamp LMP-P201 (for replacement)

Carrying Case VLC-600*3

Suspension Support PSS-610

Signal Cables SMF-400 (HD D-sub 15-pin to 5 BNC, for RGB signal) SMF-402 (HD D-sub 15-pin to phono x 3, for component signal) SMF-410 (HD D-sub 15-pin to HD D-sub 15-pin, for RGB signal)

Digital Signal Cables SMF-D102 SMF-D110

Mouse Cables SIC-S20 (for Macintosh) SIC-S21 (for Serial) SIC-S22 (for PS/2)

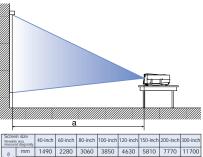


LMP-P201

Macintosh® Adaptor ADP-20 (Macintosh to VGA)

Optional Lenses VPLL-FM21 (Fixed short focus lens) VPLL-ZM31 (Short focus zoom lens) VPLL-ZM101 (Long focus zoom lens)

Throwing Distance



Screen size Vewable area measured diagonally		40-inch	60-inch	80-inch	100-inch	120-inch	150-inch	200-inch	300-inch
a (min.)	mm								11700
	inches	58 ³ / ₄	89 7/8	120 ¹ / ₂	151 ⁵ /8	182 ³ /8	228 ³ / ₄	306	460 ³ / ₄

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