

SONY[®]

LCD Data Projector

VPL-X2000E



ProSelecta

View :: Compare :: Select - www.ProSelecta.com



Outstanding brightness of 2400 ANSI lumens

Using three 1.8-inch Sony LCD panels, the VPL-X2000E delivers an outstanding brightness of 2400 ANSI lumens - your large image will be clear even in situations with ambient light.

Superior picture performance

The advanced technologies of the VPL-X2000E provide superior picture performance. This projector utilizes 3D Digital gamma correction for excellent picture uniformity, as well as exclusive Sony DRC (Digital Reality Creation) technology. DRC generates pictures with effectively four times the resolution of that from a conventional video signal. Unlike conventional linear interpolation which uses filtering techniques, DRC generates a high resolution signal by referring to memorized waveform patterns. As a result, you will project higher density pictures in which the details of the objects are enhanced.

MULTISCAN CAPABILITY

With its high performance built-in scan converter, the VPL-X2000E is compatible with a variety of input sources: component (Y/R-Y/B-Y) and RGB video, computer signals (up to UXGA, fV: 60 Hz) with a horizontal frequency of 15 to 94 kHz and a vertical frequency of 38 to 120 Hz, and HDTV*. Add the optional IFB-X2000E input board and composite and Y/C video signals are accepted.

The multiscan technology employed by the VPL-X2000E performs advanced interpolation and finite impulse response (FIR) filtering independently in both horizontal and vertical directions, depending on the line structure of the input signal.

*The VPL-X2000E supports 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.

SYSTEM VERSATILITY

The VPL-X2000E was designed with versatility in mind. The option slots in the rear panel accept a range of Sony IFB Interface Boards that allow multiple sources to be connected to the projection system at the same time.

The use of a PC-3000 Signal Interface Switcher will further enhance the ability of the projector to handle multiple signals simultaneously. The VPL-X2000E also supports RS-232C/RS-422A interfacing.

FAIL SAFE

A new fail safe feature, using four lamps, has been built in to the design. Even if one lamp fails, the projector will still continue to function. If a second fails, the projector automatically switches to standby mode.



Quad lamp

Control panel and Connector section



Optional lens (Photo: VPLL-Z2019)



Carrying handles (both sides)

Pop-out cranks (both sides)



ADJUSTABLE FEET

The VPL-X2000E has a new design of adjustable feet. Simply by turning the pop-out cranks on each side, you can set the projector to the desired height.

INSTALLATION FLEXIBILITY

The VPL-X2000E is designed for use in a variety of installation situations - ceiling, floor, and even rear projection. To add even more flexibility, a range of six lenses is available to ensure the perfect match for your installation.

POWER FOCUS, POWER ZOOM, AND PICTURE SHIFT FUNCTIONS*

Power Focus and Power Zoom are easily controlled with the control panel or the supplied remote commander. The projected image can be shifted up and down using the Picture Shift.

*Some optional lenses do not support the zoom function.

OPTIONAL LENSES

Note: Throw ratio is the distance between the centre of the projector lens and the screen, divided by the screen width.

VPLL-Z2019

- 1.9-2.4:1 Throw ratio
- 1.3 times zoom standard focus lens



VPLL-Z2025

- 2.47-3.81:1 Throw ratio
- 1.6 times zoom long focus lens



VPLL-Z2039

- 3.93-5.65:1 Throw ratio
- 1.5 times zoom long focus lens



VPLL-2075

- 7.38:1 Throw ratio
- Fixed long focus lens



VPLL-2014

- 1.36:1 Throw ratio
- Fixed short focus lens



VPLL-2009

- 0.89:1 Throw ratio
- Fixed short focus lens



STACKING CAPABILITY*

The VPL-X2000E can be twin or triple stacked using optional SU-PJ2000 projector stands. When stacked, the brightness is significantly increased.

*The fixed focus lenses (VPLL-2075/2014/2009) cannot be used when the VPL-X2000E is stacked.



EASY OPERATION

APA (Auto Pixel Alignment)

Pixel alignment is automated. Just press the APA key and innovative Sony technology detects the signal and adjusts for optimum image quality.

OSD (On-Screen Display)

The On-screen display for the VPL-X2000E is available in English, French, Spanish, Italian, German, Japanese and Chinese languages. With this new graphical interface, it is very easy to use.



REMOTE CONTROL

The RM-PJ1001 Wired / Wireless Remote Commander is supplied with the VPL-X2000E and controls all its functions. The optional RM-PJ3000S Wired / Wireless Remote Commander provides simple remote control. The optional RM-PJ10 Remote Control Receiver is available to extend the range of these remotes in wireless mode.



RM-PJ1001 and RM-PJ3000S remote commanders

ADDITIONAL FEATURES

POWER SAVING

When the Power Saving Mode is activated, the VPL-X2000E automatically enters the power saving mode if no signals have been received for 10 minutes. The projector returns to normal operation as soon as a signal is input.

TRIG TERMINAL

The VPL-X2000E has a TRIG terminal to provide control of an integrated projection room, including screens, curtains and lighting.

ACCESSORIES FOR OPTIONAL CONVENIENCE AND SYSTEM FLEXIBILITY

SIGNAL INTERFACE SWITCHER

PC-3000

- Provides eight slots for optional interface boards and one fixed output with 150 MHz cable compensation.
- Up to eight PC-3000 units can be connected, enabling up to 57 different signals to be connected in a system.
- In addition to its RS-232C/RS422A communication port, the PC-3000 is also equipped with a PJ COM port, in accordance with RS-485. This enables mutual communication between projectors and the PC-3000, expanding the versatility of system set-up.
- Incorporates an LCD display in the front panel for easier setting and adjustment.
- Input selection of a connected projector, as well as the input selection of the PC-3000 itself, can be controlled via the front panel.



INTERFACE BOARDS

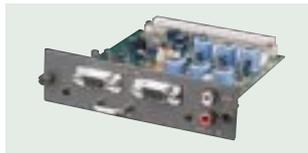
IFB-12A

- 5 BNC input/output
- Accepts analogue RGB, component (Y/R-Y/B-Y), HDTV (Y/P_B/P_R, GBR), composite video and Y/C signals
- RGB bandwidth of 300 MHz
- Cable compensation function for output signals (150 MHz)



IFB-21

- Analogue RGB input, with loop-through output (HD D-sub 15-pin)
- RGB bandwidth of 150 MHz



IFB-30

- Digital RGB input (D-sub 9-pin)
- Monochrome/ 8 colour/ 16 colour/ 64 colour mode switchable
- RGB bandwidth of 30 MHz



IFB-50

- Component SDI BNC input/output
- Serial Digital Interface board for SMPTE 259 M-C/ ITU-R BT656-3 4:2:2 video signals



IFB-1000

- Composite/Y/C video input (Loop-through BNC/Loop-through Mini DIN 4-pin)



IFB-X2000E

- Composite video, Y/C, S Video, and audio (mono) input/output



INTERFACE CABLES

SIC-20A/20C

- Analogue RGB
- D-sub 9-pin (female) to D-sub 9-pin (female)/D-sub 9-pin (male)
- Length: overall 2 m (6.6 ft) branch 0.2 m (0.7 ft)



SIC-22

- Analogue RGB with digital sync
- D-sub 9-pin (female) to D-sub 15-pin High Density (female)/D-sub 15-pin High Density (male)
- Length: overall 2 m (6.6 ft) branch 0.2 m (0.7 ft)

SMF-400

- HD D-sub 15-pin to BNC x5
- Length: overall 2 m (6.6 ft)



SMF-401

- HD D-sub 15-pin to HD D-sub 15-pin
- Length: overall 2 m (6.6 ft)

RCC-5G/10G/30G

- D-sub 9-pin to D-sub 9-pin
- Remote cable for RS-422A
- Length: 5, 10 and 30 m

OTHER ACCESSORIES

SU-PJ2000

Projector stand
(for twin and triple stacking)



PSS-2000

Suspension support



VPS-100FH

100-inch flat screen



PSS-10

Suspension support



SPECIFICATIONS

OPTICAL

Projection system:	3 LCD panels, 1 lens projection
LCD panel:	1.8-inch TFT LCD panel, 2,359,296 pixels (786,432 pixels x3)
Lamp:	120 W UHP lamp (x4)
Light output:	ANSI 2400 lm*1 (typical)
Projection picture size:	40-inch to 500-inch

Optional projection lenses:

	Throwing distance (unit: mm)		
	40-inch	100-inch	300-inch
VPLL-Z2019 (1.3 times zoom lens)	1,490 - 1,890	3,870 - 4,880	11,820 - 14,840
VPLL-Z2025 (1.6 times zoom lens)	N.A.	5,020 - 7,750	15,430 - 23,580
VPLL-Z2039 (1.5 times zoom lens)	N.A.	7,990 - 11,480	24,300 - 34,760
VPLL-2075 (fixed long focus lens)	N.A.	15,000	44,660
VPLL-2014 (fixed short focus lens)	1,030	2,760	8,520
VPLL-2009 (fixed short focus lens)	640	1,800	5,670

GENERAL

Colour system:	PAL/NTSC/SECAM/NTSC4.43/PAL-M (automatically selected)
Resolution:	Video: 600 TV lines RGB: 1024 x 768 pixels
Scanning frequency:	fH: 15 kHz - 94 kHz fV: 50 Hz - 120 Hz Display area: >6.4 µsec
Speaker:	5 W stereo
Power requirements:	AC 220 to 240 V, 50/60 Hz
Power consumption:	Max: 770 W (approx.), Standby: 20 W
Heat dissipation:	2628 BTU
Dimensions:	562 (W) x 237 (H) x 649 (D) mm (22 1/4 x 9 3/8 x 25 5/8 inches)
Mass:	Approx. 34.5 kg (75 lb 14 oz)
Operating temperature:	0 to 40°C (32 to 104°F)
Operating humidity:	35 to 85% (no condensation)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Storage humidity:	10 to 90%

INPUTS/OUTPUTS

VIDEO IN *2	Composite video: Loop-through BNC 1.0 Vp-p ± 2 dB sync negative, 75 Ω
--------------------	---

S VIDEO IN *2	Y IN: BNC 1.0 Vp-p ± 2 dB sync negative, 75 Ω C IN: BNC Burst 0.3 Vp-p ± 2 dB (PAL), 75 Ω or 0.286 Vp-p ± 2 dB (NTSC), 75 Ω Y/C IN: Loop-through Mini DIN 4-pin Y(luminance): 1.0 Vp-p ± 2 dB sync negative, 75 Ω C(chrominance): Burst 0.3 Vp-p ± 2 dB (PAL), 75 Ω or 0.286 Vp-p ± 2 dB (NTSC), 75 Ω
----------------------	---

AUDIO IN *2	Phono, stereo, 500 mV rms, impedance more than 47 kΩ
--------------------	--

INPUT A

Analogue RGB/Component: BNC x 5	
R/R-Y:	0.7 Vp-p ± 2 dB positive, 75 Ω
G:	0.7 Vp-p ± 2 dB positive, 75 Ω
G with sync/Y:	1.0 Vp-p ± 2 dB sync negative, 75 Ω
B/B-Y:	0.7 Vp-p ± 2 dB positive, 75 Ω
SYNC/HD	
Composite sync:	0.6 - 8 Vp-p high impedance, sync positive/negative
Horizontal sync:	0.6 - 8 Vp-p high impedance, sync positive/negative
VD	
Vertical sync:	0.6 - 8 Vp-p high impedance, sync positive/negative
HDTV*3 (Y/Pb/Pr): BNC	
Y:	1.0 Vp-p ± 2 dB positive, 75 Ω, Tri-level sync: ±0.3 Vp-p Bi-level sync: 0.3 Vp-p
Pb/Pr:	±0.35 Vp-p ± 2 dB positive, 75 Ω
HDTV*3 (GBR): BNC	
G with sync:	1.0 Vp-p ± 2 dB, 75 Ω, Tri-level sync: ±0.3 Vp-p Bi-level sync: 0.3 Vp-p
B/R:	0.7 Vp-p ± 2 dB positive, 75 Ω
Audio IN:	Phono, stereo, 500 mV rms, impedance more than 47 kΩ

AUDIO OUT:	Phono, Max. 1 V rms when input is 500 mV rms, impedance more than 1 kΩ
INPUT B/C:	Open for optional IFB board
CONTROL S IN/	Stereo mini jack 5 Vp-p,
PLUG IN POWER:	Plug in power DC 5 V maximum output 60 mA
CONTROL S OUT:	Stereo mini jack 5 Vp-p

REMOTE

RS-232C/ RS-422A*4:	D-sub 9-pin (female)
PJ COM*5:	D-sub 9-pin x2 (female)
Trig:	Mini jack Power ON: 12 V, output impedance 4.7 kΩ Power OFF: 0 V

SAFETY REGULATIONS

EN 60 950 (TUV), CE, C-tick

ACCESSORIES

SUPPLIED ACCESSORIES:	Remote commander RM-PJ1001 Remote commander cable (15 m) AA size battery (x3) AC power cord PJ COM termination Lens ring Operation manual Installation manual
OPTIONAL ACCESSORIES:	Projector quadruple lamp (for replacement) LMP-Q2000 Projector individual lamp LMP-S2000 1.3 times zoom standard focus lens VP LL-Z2019 1.6 times zoom long focus lens VP LL-Z2025 1.5 times zoom long focus lens VP LL-Z2039 Fixed long focus lens VP LL-2075 Fixed short focus lens VP LL-2014 Fixed short focus lens VP LL-2009 Stack stand (for twin and triple stacking) SU-PJ2000 Suspension support PSS-2000 Suspension support PSS-10 Signal adaptor HD D-sub 15-pin→D-sub 9-pin (for SIC Cable) ADP-10 Signal adaptor Macintosh®→VGA® ADP-20 D-sub HD 15-pin→5 BNC cable SMF-400 D-sub HD 15-pin→D-sub HD 15-pin SMF-401 Interface board IFB-12A/21/30/1000/50/X2000E Signal interface cable SIC-20A/20C/22 Signal interface switcher PC-3000 9-pin remote cable RCC-5G/10G/30G (for RS-422A) Remote commander RM-PJ3000S*6 Remote control receiver RM-PJ10 100-inch flat screen VPS-100FH

*1 ANSI lumen is a measuring method of the American National Standards Institute ANSI IT7.228.
*2 With the optional IFB-X2000E installed.

*3 The VPL-X2000E supports 1125/60/2:1 and 1125/59.94/2:1(SMPTE-240M/274M) HDTV systems.

*4 RS-232C/RS-422A selectable.

*5 PJ COM complies with RS-485.

*6 Laser Type: Class II
Wavelength: 645 nm
Output: 1 mW

