SONY®
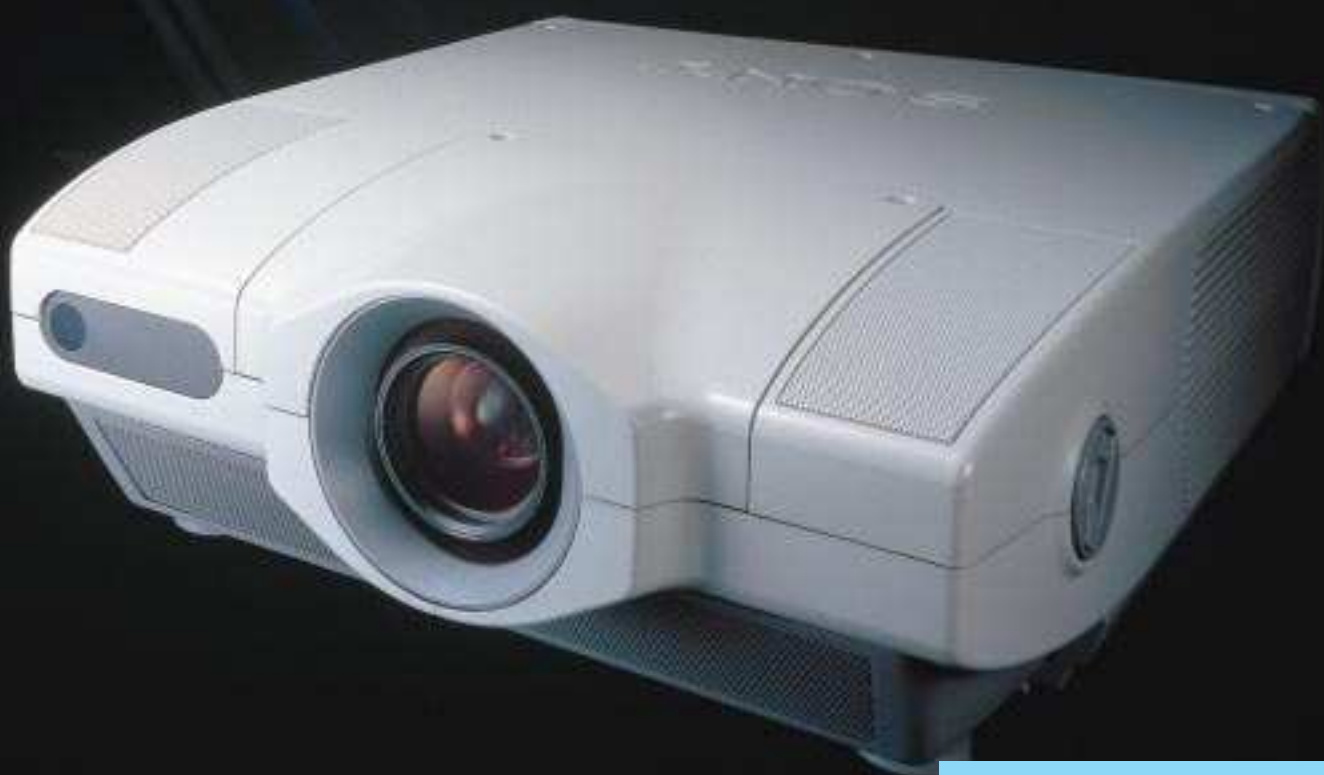
VPL-FX200E

With optional VPLL-Z2019 lens

The Sony VPL-FX200E – Superior Picture Performance in an Easy to Handle Large Venue Projector

Leave it to Sony to stay ahead of the times. To present your creative material with the greatest impact you need a projection system that not only handles what you give it today, but is also ready for tomorrow. The new VPL-FX200E LCD Data Projector from Sony has exactly what you are looking for - superior picture performance, with the essential system expansion capability you need for the future.

The VPL-FX200E uses the very latest Sony projector technology. It provides the incredible brightness of 3100 ANSI lumens. Picture quality and uniformity are outstanding. Lens and input options, together with a full range of accessories, mean that the VPL-FX200E can be configured to exactly meet your installation requirements.

Adding just these features alone would be a great improvement to today's installation projectors. Sony has gone several steps further - providing all of these features in a projector that is smaller and easier to handle than other projectors designed for rental, fixed installation and large venue applications.

VPL-FX200E

Outstanding brightness of 3100 ANSI lumens

Using three 1.8-inch Sony LCD panels, the VPL-FX200E delivers an outstanding brightness of 3100 ANSI lumens - your large image will be clear even in situations with ambient light.

Superior picture performance

The advanced technologies of the VPL-FX200E 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-FX200E 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 50 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-FX200E 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-FX200E supports 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.

SYSTEM VERSATILITY

The VPL-FX200E 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-FX200E also supports RS-232C/RS-422A interfacing.

Control panel and Connector section

FAIL SAFE

The light source of the VPL-FX200E incorporates four lamps so that even if one lamps fails, the projector will still continue to function. If a second lamps fails, the projector automatically switches to standby mode.

Quad lamp

Optional lens (Photo: VPLL-Z2019)

Carrying handles (both sides)

Pop-out cranks (both sides)

ADJUSTABLE FEET

The VPL-FX200E has easy-to-adjust feet. Simply by turning the pop-out cranks on each side, you can set the projector to the desired height.

INSTALLATION FLEXIBILITY

The VPL-FX200E 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.

STACKING CAPABILITY*

The VPL-FX200E can be twin or triple stacked using optional SU-PJ2000 projector stands. When stacked, the brightness is significantly increased.

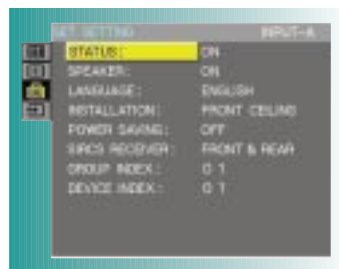*The fixed focus lenses (VPLL-2075/2014/2009) cannot be used when the VPL-FX200E is stacked.

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

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-FX200E 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-FX200E 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

RM-PJ3000S

RM-PJ1001 and RM-PJ3000S remote commanders

ADDITIONAL FEATURES

POWER SAVING

When the Power Saving Mode is activated, the VPL-FX200E 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-FX200E has a TRIG terminal to provide control of an integrated projection room, including screens, curtains and lighting.

ACCESSORIES FOR OPERATIONAL 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-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
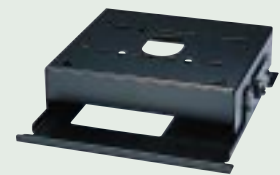- Length: 5, 10 and 30 m

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 3100 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 (TÜV), 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-Q120
- Projector individual lamp LMP-S120
- 1.3 times zoom standard focus lens VPLL-Z2019
- 1.6 times zoom long focus lens VPLL-Z2025
- 1.5 times zoom long focus lens VPLL-Z2039
- Fixed long focus lens VPLL-2075
- Fixed short focus lens VPLL-2014
- Fixed short focus lens VPLL-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/21/1000/50/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-FX200E 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: I mW