

VPL-FE110U/110M
LCD Data Projector



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SONY®

The VPL-FE110 LCD Data Projector from Sony.

Native SXGA Resolution. Brightness of 4000 ANSILumens



Incorporating the latest advances in optical and electronic technologies, the VPL-FE110 provides the best solution for high-end fixed installations where performance and reliability are essential. With native SXGA Sony LCD panels and support of signals up to UXGA, you can project high-resolution images that retain their clarity and detail, even on a large screen. Our unique four-lamp light source produces an outstanding 4000 ANSI lumens, and provides extra reliability by continuing to function even if one of the lamps fails.

And many other features are included to provide first-class standards of functionality. Combining these with superb picture performance and reliability, together with a high degree of convenience and operational simplicity, the VPL-FE110 is the solution for your large-venue visual communication challenges.

* The VPL-FE110 is available in two models: the VPL-FE110U for countries operating at AC 100-120 V and the VPL-FE110M for AC 220-240 V.





Picture Quality

Outstanding Brightness of 4000 ANSI Lumens

Using three 1.8-inch Sony SXGA LCD panels, the VPL-FE110 delivers an outstanding brightness of 4000 ANSI lumens. No matter what the room lighting conditions, your presentation will always be clear and vibrant.

HDTV and DTV Support

With the progression toward HDTV and DTV, the VPL-FE110 is designed to support a wide variety of HDTV and DTV signals. For more details, please refer to the HDTV and DTV Signal Chart.

Excellent picture performance

The advanced technologies of the VPL-FE110 provide excellent Picture Performance. This projector utilises 3D Digital Gamma correction for outstanding picture uniformity, as well as exclusive Sony Digital Reality Creation™ (DRC™) technology. DRC generates video 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 memorised waveform patterns. As a result, you can project high-density pictures in which the details of the objects are enhanced.

Multiscan Capability

With its high performance built-in scan converter, the VPL-FE110 is compatible with a variety of input sources: composite, Y/C, component (Y/R-Y/B-Y) and RGB video, as well as computer signals (up to UXGA, 1600 x 1200, fV: 75 Hz) with a horizontal frequency of 15 to 100 kHz and a vertical frequency of 40 to 120 Hz. The multiscan technology employed by the VPL-FE110 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.

System Versatility

The VPL-FE110, like other Sony large venue projectors, is 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-FE110 also supports RS-232C/422A control interfacing* and equips a TRIG terminal.

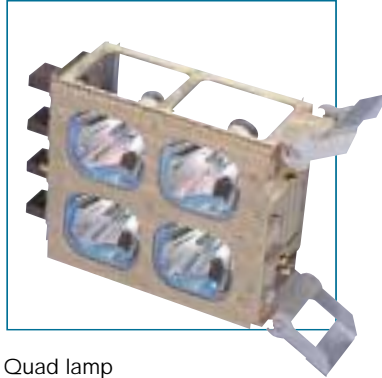
* When the INPUT C/RS-232C/RS-422A select switch is set to INPUT C, the VPL-FE110 cannot be controlled via RS-232C/422A.



Optional lens
(Photo: VPLL-Z3020)

Fail-Safe

The light source of the VPL-FE110 incorporates four lamps so that 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
(LMP-Q130)



Pop-out cranks
and adjustable feet
(both sides)

Carrying handles
(both sides)

Lamp Lighting Mode Selection

The VPL-FE110 can operate with only two of its four lamps functioning to provide a light output of 2000 ANSI lumens. In this mode, the life expectancy of a set of four lamps is doubled to 4,000 hours.



Control panel and connector section

Networking Capability

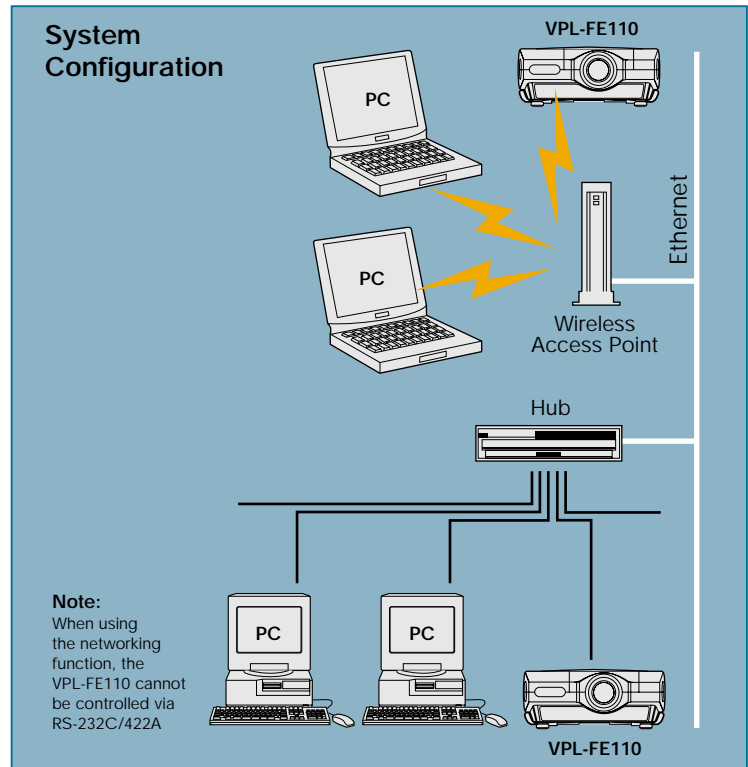
The VPL- FE110 is the first projector from Sony to pack an all new networking function, expanding the possibilities for visual communication.

LAN Connection

The VPL-FE110 is equipped with a PC Card slot (INPUT C). By inserting a LAN/wireless LAN PC Card*1*2, the projector can be connected to a LAN (Local Area Network). The VPL-FE110 incorporates the Sony original application software "Presentation Viewer", which enables you to open and project your Microsoft® PowerPoint® presentation files with the projector. When the VPL-FE110 is connected to a LAN, files shared on the network can be retrieved and opened for projection using the optional RM-PJM610 remote control unit.

It is also possible to send your presentation files to the projector from a PC connected to the LAN. Browsing through the Internet is possible as well, using the web browser provided in the projector.

- *1 For wireless connection, an Access Point is also required.
- *2 Recommended LAN PC Card, Wireless LAN PC Card, Memory Card and Access Point may vary by area. For more details, please contact your nearest Sony office.



Memory Storage

The VPL-FE110 has a memory storage, which makes it possible for you to save your presentation files in the projector. You can save the presentations prior to an event show, and then project it continuously – all you will need at the site is the VPL-FE110.

Projector Control via Web Browser

Any PC within the same LAN can communicate with the VPL-FE110, through the web browser*. Operating your presentation (preparing and running slide shows), controlling the projector's ON/STANDBY or its picture control, or organising the presentation files can all be done with a PC connected to the LAN. You have full access without any need to install additional software.

- * **System requirements:**
 - OS: Microsoft Windows® 98, Windows 98 SE or Windows 2000
 - Web Browser: Internet Explorer 4.0 or later or Netscape® Communicator 4.0 or later



File Manager



Presentation Viewer

Installation Flexibility

The VPL-FE110 is designed for use in a variety of installation situations - ceiling, floor, and even rear projection. To add even more flexibility, a wide range of lenses is available to provide the perfect match for your installation.

Power Focus, Power Zoom and Picture Shift Functions*

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

* Some optional lenses do not support the zoom function.

5:4 and 4:3 aspect Ratio Support

Rather than limit your installation options, the VPL-FE110 expands them by making it easy to reproduce a wide variety of signals in their original aspects. With available resizing modes, the VPL-FE110 is able to project an entire 5:4 aspect ratio image within the screen, even if your screen is installed for use with 4:3 aspect ratio sources.

Free Tilt Angle

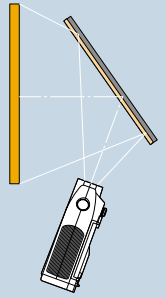
The front to back tilt angle of the VPL-FE110 is unlimited, and all projection angles are acceptable on this mounting plane. This enables you to create a very compact, rear-projection system.

Stacking Capability*

The VPL-FE110 can be twin or triple stacked using optional SU-PJ2000 projector stands. When stacked, the brightness is significantly increased.

* The fixed focus lenses (VPLL-3050/2075/2014/2009) cannot be used when the VPL-FE110 is stacked.

Free Tilt Angle



Stacking Capability



Easy Operation

Remote Control

The RM-PJ1001 wired/wireless remote control unit is supplied with the VPL-FE110 and controls all projector functions. The optional RM-PJM610 remote control unit is used when controlling the networking functions, and the RM-PJ3000S wired/wireless remote control unit provides simple remote control. The optional RM-PJ10 remote control receiver is available to extend the range of these remotes in wireless mode.

Power Saving

When the Power Saving mode is activated, the VPL-FE110 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.

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-FE110 is available in English, French, Spanish, Italian, German, Japanese and Chinese languages. With this projector's new graphical interface, it is very easy to use.



RM-PJM610

Remote control unit



RM-PJ1001

Remote control unit



On-Screen Display

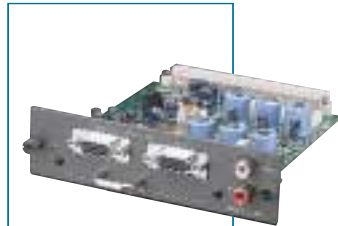
Optional Accessories



IFB-12A

Interface Board

- 5 BNC input/output
- Accepts analogue RGB, component (Y/R-Y/B-Y), HDTV (Y/PB/PR, GBR), composite video and Y/C signals



IFB-21

Interface Board

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



PC-3000

Signal Interface Switcher

- Provides eight slots for optional interface boards and one fixed output with 150 MHz cable compensation



IFB-50

Interface Board

- 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

Interface Board

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



PSS-10

Suspension Support



SU-PJ2000

Projector Stand

(for twin and triple stacking)



PSS-2000

Suspension Support



SMF-400

Interface Cable

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

SMF-410

Interface Cable

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

SIC-10

Interface Cable

- BNC x5 to BNC x5
- Length: overall 10 m (32.8 ft)

RCC-5G/10G/30G

Interface Cable

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

Input Signal Preset Data

MEMORY No.	Preset Signal	fH (kHz)	fV (kHz)	
1	VIDEO	60 Hz	15.734	59.940
2		50 Hz	15.625	50.000
3	15 kHz RGB	480/60I	15.734	59.940
4		575/50I	15.625	50.000
5	HDTV/DTV	1035/60I, 1080/60I	33.750	60.000
6	640x350	VGA-1 (VGA350)	31.469	70.086
7		VESA 85 (VGA350)	37.861	85.080
8	640x400	NEC PC98	24.823	56.416
9		VGA-2 (TEXT)/VESA70	31.469	70.086
10		VESA 85 (VGA400)	37.861	85.080
11	640x480	VESA 60	31.469	59.940
12		Mac 13	35.000	66.667
13		VESA 72	37.861	72.809
14		VESA 75 (IBM M3)	37.500	75.000
15		VESA 85 (IBM M4)	43.269	85.008
16	800x600	VESA 56	35.156	56.250
17		VESA 60	37.879	60.317
18		VESA 72	48.077	72.188
19		VESA 75 (IBM M5)	46.875	75.000
20		VESA 85	53.674	85.061
21	832x624	Mac 16	49.724	74.550
22	1024x768	VESA 43 (8514)	35.524	43.479
23		VESA 60	48.363	60.004
24		VESA 70	56.476	69.955
25		VESA 75	60.023	75.029
26		VESA 85	68.677	84.997
27		1152x864	VESA 70	63.995
28	VESA 75		67.500	75.000
29	VESA 85		77.487	85.057
30	1152x900	SUN LO	61.795	65.960
31		SUN HI	71.713	76.047
32	1280x960	VESA 60	60.000	60.000
33		VESA 75	75.000	75.000
34	1280x1024	VESA 43	46.433	43.436
35		SGL-5	53.316	50.062
36		VESA 60	63.974	60.013
37		SXGA VESA 75	79.976	75.025
38		SXGA VESA 85	91.146	85.024
39		1600x1200	UXGA VESA 60	75.000
40	UXGA VESA 65		81.913	65.530
41	UXGA VESA 75		93.750	75.000
43	P. Component	480/60P (Progressive)	31.470	60.000
44		575/50P (Progressive)	31.250	50.000
45	HDTV/DTV	1080/50I	28.130	50.000
47		720/60P	45.000	60.000
48		720/50P	37.500	50.000
49		1080/24PsF	27.000	48.000

HDTV and DTV Signal Chart

System	Scanning Rate (kHz)	Frame Rate (Hz)*	Scanning Format	Aspect	Standard
1035/60I	33.75	30	2:1 Interlace	16:9	BTA S-001B
1080/60I	33.75	30	2:1 Interlace	16:9	SMPTE 274M/BTA S-001B
480/60P	31.5	60	Progressive	16:9/4:3	SMPTE 293M
1080/24PsF	27	24	2:1 Interlace	16:9	—
1080/50I	28.13	25	2:1 Interlace	16:9	SMPTE 274M
720/60P	45	60	Progressive	16:9	SMPTE 296M
720/50P	37.5	60	Progressive	16:9	—

* Each of the above frame rates is also compatible with 1/1.001

Installation examples

unit: mm (inches)

VPLL-Z2019 [4:3]										
Screen Size* (inches)	40	80	100	120	150	200	300	400	500	
Floor Installation										
a	min	1530 (60 1/4)	3170 (124 7/8)	3990 (157 1/8)	4800 (189)	6030 (237 7/16)	8080 (318 1/4)	12170 (479 1/4)	16260 (640 1/4)	20350 (801 3/8)
	max	1950 (76 7/8)	4000 (157 1/2)	5020 (197 11/16)	6040 (237 7/8)	7580 (298 1/2)	10140 (399 3/8)	15260 (600 7/8)	20380 (802 1/2)	25510 (1004 1/2)
b	min	x-295 (x-11 5/8)	x-590 (x-23 1/4)	x-737 (x-29 1/8)	x-884 (x-34 7/8)	x-1106 (x-43 5/8)	x-1474 (x-58 1/8)	x-2211 (x-87 1/8)	x-2948 (x-116 1/8)	x-3685 (x-145 1/8)
	max	x								
c	min	x-450 (x-17 3/4)	x-745 (x-29 3/8)	x-892 (x-35 1/8)	x-1039 (x-41)	x-1261 (x-49 3/4)	x-1629 (x-64 1/4)	x-2366 (x-93 1/4)	x-3103 (x-122 1/4)	x-3840 (x-151 1/4)
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	1530 (60 1/4)	3170 (124 7/8)	3990 (157 1/8)	4800 (189)	6030 (237 7/16)	8080 (318 1/4)	12170 (479 1/4)	16260 (640 1/4)	20350 (801 3/8)
	max	1950 (76 7/8)	4000 (157 1/2)	5020 (197 11/16)	6040 (237 7/8)	7580 (298 1/2)	10140 (399 3/8)	15260 (600 7/8)	20380 (802 1/2)	25510 (1004 1/2)
b	min	c+131 (c+5 1/4)								
	max	c+144 (c+5 3/4)								
e	min	305 (12 1/8)	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)
	max	c+131 (c+5 1/4)								
x	min	c+438 (c+17 1/4)								
	max	c+733 (c+28 7/8)	c+881 (c+34 3/4)	c+1028 (c+40 1/2)	c+1249 (c+49 1/4)	c+1618 (c+63 3/4)	c+2355 (c+92 3/4)	c+3092 (c+121 3/4)	c+3829 (c+150 7/8)	
Twin Stack (Floor Installation)										
a	—	3710 (146 1/8)	4650 (183 1/8)	5600 (220 1/2)	7020 (276 7/16)	9380 (369 3/8)	14110 (555 5/8)	18840 (741 7/8)	23560 (927 3/4)	

VPLL-Z2019 [5:4 (Screen: 4:3)]										
Screen Size* (inches)	42	80	100	120	150	200	300	400	500	
Floor Installation										
a	min	1500 (59 1/8)	2960 (116 5/8)	3730 (146 7/8)	4490 (176 7/8)	5640 (222 1/8)	7560 (297 3/4)	11390 (448 1/2)	15230 (599 3/4)	19060 (750 1/2)
	max	1910 (75 1/4)	3740 (147 3/8)	4700 (185 1/8)	5660 (222 7/8)	7100 (279 5/8)	9500 (374 1/8)	14300 (563 1/8)	19090 (751 3/4)	23890 (940 3/4)
b	min	x-286 (x-11 1/4)	x-544 (x-21 1/2)	x-680 (x-26 7/8)	x-816 (x-32 1/4)	x-1020 (x-40 1/4)	x-1360 (x-53 5/8)	x-2040 (x-80 3/8)	x-2720 (x-107 1/8)	x-3400 (x-134)
	max	x								
c	min	x-440 (x-17 3/8)	x-699 (x-27 5/8)	x-835 (x-32 7/8)	x-971 (x-38 1/4)	x-1175 (x-46 3/8)	x-1515 (x-59 3/4)	x-2195 (x-86 1/2)	x-2875 (x-113 1/4)	x-3555 (x-140)
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	1500 (59 1/8)	2960 (116 5/8)	3730 (146 7/8)	4490 (176 7/8)	5640 (222 1/8)	7560 (297 3/4)	11390 (448 1/2)	15230 (599 3/4)	19060 (750 1/2)
	max	1910 (75 1/4)	3740 (147 3/8)	4700 (185 1/8)	5660 (222 7/8)	7100 (279 5/8)	9500 (374 1/8)	14300 (563 1/8)	19090 (751 3/4)	23890 (940 3/4)
b	min	c+131 (c+5 1/4)								
	max	c+143 (c+5 3/4)								
e	min	317 (12 1/2)	605 (23 7/8)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)
	max	c+131 (c+5 1/4)								
x	min	c+429 (c+17)								
	max	c+687 (c+27 1/8)	c+823 (c+32 1/2)	c+959 (c+37 7/8)	c+1163 (c+45 7/8)	c+1503 (c+59 1/4)	c+2184 (c+86)	c+2864 (c+112 7/8)	c+3544 (c+139 5/8)	
Twin Stack (Floor Installation)										
a	—	3560 (140 1/4)	4460 (175 5/8)	5370 (211 1/2)	6730 (265)	9000 (354 3/8)	13540 (533 1/4)	18080 (712)	22620 (890 3/4)	

VPLL-Z2025 [4:3]										
Screen Size* (inches)	80	100	120	150	200	300	400	500		
Floor Installation										
a	min	4100 (161 1/2)	5170 (203 5/8)	6240 (245 3/4)	7850 (309 1/8)	10520 (414 1/4)	15870 (625)	21220 (835 5/8)	26580 (1046 5/8)	
	max	6340 (249 3/4)	7970 (313 7/8)	9600 (378)	12040 (474 1/8)	16120 (634 3/4)	24260 (955 1/4)	32400 (1275 3/4)	40550 (1596 3/4)	
b	min	x-590 (x-23 1/4)	x-737 (x-29 1/8)	x-884 (x-34 7/8)	x-1106 (x-43 5/8)	x-1474 (x-58 1/8)	x-2211 (x-87 1/8)	x-2948 (x-116 1/8)	x-3685 (x-145 1/8)	
	max	x								
c	min	x-745 (x-29 3/8)	x-892 (x-35 1/8)	x-1039 (x-41)	x-1261 (x-49 3/4)	x-1629 (x-64 1/4)	x-2366 (x-93 1/4)	x-3103 (x-122 1/4)	x-3840 (x-151 1/4)	
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	4100 (161 1/2)	5170 (203 5/8)	6240 (245 3/4)	7850 (309 1/8)	10520 (414 1/4)	15870 (625)	21220 (835 5/8)	26580 (1046 5/8)	
	max	6340 (249 3/4)	7970 (313 7/8)	9600 (378)	12040 (474 1/8)	16120 (634 3/4)	24260 (955 1/4)	32400 (1275 3/4)	40550 (1596 3/4)	
b	min	c+131 (c+5 1/4)								
	max	c+144 (c+5 3/4)								
e	min	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)	
	max	c+131 (c+5 1/4)								
x	min	c+733 (c+28 7/8)								
	max	c+881 (c+34 3/4)	c+1028 (c+40 1/2)	c+1249 (c+49 1/4)	c+1618 (c+63 3/4)	c+2355 (c+92 3/4)	c+3092 (c+121 3/4)	c+3829 (c+150 7/8)		
Twin Stack (Floor Installation)										
a	4460 (175 5/8)	5650 (222 1/2)	6830 (269)	8610 (339 1/8)	11580 (456)	17510 (689 1/2)	23450 (923 3/8)	29380 (1156 7/8)		

VPLL-Z2025 [5:4 (Screen: 4:3)]										
Screen Size* (inches)	84	100	120	150	200	300	400	500		
Floor Installation										
a	min	4030 (158 11/16)	4830 (190 1/4)	5840 (230)	7340 (289 1/8)	9850 (387 7/8)	14860 (585 1/8)	19880 (782 7/8)	24890 (980 1/8)	
	max	6240 (245 3/4)	7460 (293 3/4)	8990 (354)	11280 (444 1/4)	15090 (594 1/4)	22720 (894 5/8)	30350 (1195 1/8)	37990 (1495 7/8)	
b	min	x-571 (x-22 1/2)	x-680 (x-26 7/8)	x-816 (x-32 1/4)	x-1020 (x-40 1/4)	x-1360 (x-53 5/8)	x-2040 (x-80 3/8)	x-2720 (x-107 1/8)	x-3400 (x-134)	
	max	x								
c	min	x-726 (x-28 5/8)	x-835 (x-32 7/8)	x-971 (x-38 1/4)	x-1175 (x-46 3/8)	x-1515 (x-59 3/4)	x-2195 (x-86 1/2)	x-2875 (x-113 1/4)	x-3555 (x-140)	
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	4030 (158 11/16)	4830 (190 1/4)	5840 (230)	7340 (289 1/8)	9850 (387 7/8)	14860 (585 1/8)	19880 (782 7/8)	24890 (980 1/8)	
	max	6240 (245 3/4)	7460 (293 3/4)	8990 (354)	11280 (444 1/4)	15090 (594 1/4)	22720 (894 5/8)	30350 (1195 1/8)	37990 (1495 7/8)	
b	min	c+131 (c+5 1/4)								
	max	c+143 (c+5 3/4)								
e	min	635 (25)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)	
	max	c+131 (c+5 1/4)								
x	min	c+715 (c+28 1/4)								
	max	c+823 (c+32 1/2)	c+959 (c+37 7/8)	c+1163 (c+45 7/8)	c+1503 (c+59 1/4)	c+2184 (c+86)	c+2864 (c+112 7/8)	c+3544 (c+139 5/8)		
Twin Stack (Floor Installation)										
a	4500 (177 1/4)	5410 (213 1/8)	6550 (258)	8260 (325 1/4)	11100 (437 1/8)	16800 (661 1/2)	22500 (886)	28190 (1110)		

Optional Lenses

Note:

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



VPLL-Z3020

- 2.09-2.63:1 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-Z3020 [4:3]										
Screen Size* (inches)		40	80	100	120	150	200	300	400	500
Floor Installation										
a	min	1590 (62 5/8)	3310 (130 3/8)	4170 (164 1/4)	5030 (198 1/16)	6310 (248 1/2)	8460 (333 1/8)	12750 (502 1/8)	17040 (671)	21330 (839 7/8)
	max	2030 (79 15/16)	4190 (165)	5260 (207 1/8)	6340 (249 3/4)	7950 (313 1/8)	10640 (419)	16020 (630 13/16)	21400 (842 5/8)	26780 (1054 1/2)
b	min	x-295 (x-11 5/8)	x-590 (x-23 1/4)	x-737 (x-29 1/8)	x-884 (x-34 7/8)	x-1106 (x-43 5/8)	x-1474 (x-58 1/8)	x-2211 (x-87 1/8)	x-2948 (x-116 1/8)	x-3685 (x-145 1/8)
	max	x								
c	min	x-450 (x-17 3/4)	x-745 (x-29 3/8)	x-892 (x-35 1/8)	x-1039 (x-41)	x-1261 (x-49 3/4)	x-1629 (x-64 1/4)	x-2366 (x-93 1/4)	x-3103 (x-122 1/4)	x-3840 (x-151 1/4)
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	1590 (62 5/8)	3310 (130 3/8)	4170 (164 1/4)	5030 (198 1/16)	6310 (248 1/2)	8460 (333 1/8)	12750 (502 1/8)	17040 (671)	21330 (839 7/8)
	max	2030 (79 15/16)	4190 (165)	5260 (207 1/8)	6340 (249 3/4)	7950 (313 1/8)	10640 (419)	16020 (630 13/16)	21400 (842 5/8)	26780 (1054 1/2)
b	min	c+131 (c+5 1/4)								
	max	c+144 (c+5 3/4)								
e		305 (12 1/8)	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)
x	min	c+131 (c+5 1/4)								
	max	c+438 (c+17 1/4)	c+733 (c+28 3/8)	c+881 (c+34 3/4)	c+1028 (c+40 1/2)	c+1249 (c+49 1/4)	c+1618 (c+63 3/4)	c+2355 (c+92 3/4)	c+3092 (c+121 3/4)	c+3829 (c+150 7/8)
Twin Stack (Floor Installation)										
a		—	3860 (152)	4840 (190 5/8)	5820 (229 1/4)	7300 (287 1/2)	9750 (384)	14670 (577 3/4)	19580 (771)	24500 (964 3/4)

VPLL-Z3020 5:4 [Screen: 4:3]										
Screen Size* (inches)		42	80	100	120	150	200	300	400	500
Floor Installation										
a	min	1570 (61 7/8)	3090 (121 3/4)	3900 (153 5/8)	4700 (185 1/8)	5910 (232 3/4)	7920 (311 7/8)	11940 (470 1/4)	15960 (628 1/2)	19980 (786 3/4)
	max	2000 (78 3/4)	3920 (154 3/8)	4920 (193 3/4)	5930 (233 1/2)	7440 (293)	9960 (392 1/4)	15000 (590 5/8)	20040 (789 1/8)	25080 (987 5/8)
b	min	x-286 (x-11 1/4)	x-544 (x-21 1/2)	x-680 (x-26 7/8)	x-816 (x-32 1/4)	x-1020 (x-40 1/4)	x-1360 (x-53 5/8)	x-2040 (x-80 3/8)	x-2720 (x-107 1/8)	x-3400 (x-134)
	max	x								
c	min	x-440 (x-17 3/8)	x-699 (x-27 5/8)	x-835 (x-32 7/8)	x-971 (x-38 1/4)	x-1175 (x-46 3/8)	x-1515 (x-59 3/4)	x-2195 (x-86 1/2)	x-2875 (x-113 1/4)	x-3555 (x-140)
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	1570 (61 7/8)	3090 (121 3/4)	3900 (153 5/8)	4700 (185 1/8)	5910 (232 3/4)	7920 (311 7/8)	11940 (470 1/4)	15960 (628 1/2)	19980 (786 3/4)
	max	2000 (78 3/4)	3920 (154 3/8)	4920 (193 3/4)	5930 (233 1/2)	7440 (293)	9960 (392 1/4)	15000 (590 5/8)	20040 (789 1/8)	25080 (987 5/8)
b	min	c+131 (c+5 1/4)								
	max	c+143 (c+5 3/4)								
e		317 (12 1/2)	605 (23 7/8)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)
x	min	c+131 (c+5 1/4)								
	max	c+429 (c+17)	c+687 (c+27 1/8)	c+823 (c+32 1/2)	c+959 (c+37 7/8)	c+1163 (c+45 7/8)	c+1503 (c+59 1/4)	c+2184 (c+86)	c+2864 (c+112 7/8)	c+3544 (c+139 5/8)
Twin Stack (Floor Installation)										
a		—	3700 (145 3/4)	4640 (182 3/4)	5590 (220 1/8)	7000 (275 5/8)	9360 (368 5/8)	14080 (554 1/2)	18800 (740 1/4)	23520 (926 7/8)

* Viewable area, measured diagonally.

VPLL-Z2039 [4:3]										
Screen Size* (inches)		80	100	120	150	200	300	400	500	
Floor Installation										
a	min	6540 (257 5/8)	8220 (323 3/4)	9900 (389 7/8)	12420 (489 1/8)	16610 (654 1/8)	25000 (984 3/8)	33390 (1314 3/4)	41780 (1645 1/8)	
	max	9420 (371)	11810 (465 1/8)	14210 (559 5/8)	17800 (700 7/8)	23780 (936 3/8)	35750 (1407 3/4)	47720 (1879)	59690 (2350 3/8)	
b	min	x-590 (x-23 1/4)	x-737 (x-29 1/8)	x-884 (x-34 7/8)	x-1106 (x-43 5/8)	x-1474 (x-58 1/8)	x-2211 (x-87 1/8)	x-2948 (x-116 1/8)	x-3685 (x-145 1/8)	
	max	x								
c	min	x-745 (x-29 3/8)	x-892 (x-35 1/8)	x-1039 (x-41)	x-1261 (x-49 3/4)	x-1629 (x-64 1/4)	x-2366 (x-93 1/4)	x-3103 (x-122 1/4)	x-3840 (x-151 1/4)	
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	6540 (257 5/8)	8220 (323 3/4)	9900 (389 7/8)	12420 (489 1/8)	16610 (654 1/8)	25000 (984 3/8)	33390 (1314 3/4)	41780 (1645 1/8)	
	max	9420 (371)	11810 (465 1/8)	14210 (559 5/8)	17800 (700 7/8)	23780 (936 3/8)	35750 (1407 3/4)	47720 (1879)	59690 (2350 3/8)	
b	min	c+131 (c+5 1/4)								
	max	c+144 (c+5 3/4)								
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)	
x	min	c+131 (c+5 1/4)								
	max	c+733 (c+28 7/8)	c+881 (c+34 3/4)	c+1028 (c+40 1/2)	c+1249 (c+49 1/4)	c+1618 (c+63 3/4)	c+2355 (c+92 3/4)	c+3092 (c+121 3/4)	c+3829 (c+150 7/8)	
Twin Stack (Floor Installation)										
a		6840 (269 3/8)	8590 (338 1/4)	10340 (407 1/4)	12970 (510 3/4)	17340 (682 7/8)	26100 (1027 3/4)	34850 (1372 1/4)	43610 (1717 1/4)	

VPLL-Z2039 5:4 [Screen: 4:3]										
Screen Size* (inches)		84	100	120	150	200	300	400	500	
Floor Installation										
a	min	6440 (253 5/8)	7690 (302 7/8)	9270 (365 1/8)	11630 (458)	15560 (612 3/4)	23420 (922 1/4)	31280 (1231 3/4)	39140 (1541 1/4)	
	max	9260 (364 5/8)	11060 (435 1/2)	13300 (523 3/4)	16670 (656 1/2)	22280 (877 3/8)	33490 (1318 3/4)	44710 (1760 1/2)	55930 (2202 1/4)	
b	min	x-571 (x-22 1/2)	x-680 (x-26 7/8)	x-816 (x-32 1/4)	x-1020 (x-40 1/4)	x-1360 (x-53 5/8)	x-2040 (x-80 3/8)	x-2720 (x-107 1/8)	x-3400 (x-134)	
	max	x								
c	min	x-726 (x-28 5/8)	x-835 (x-32 7/8)	x-971 (x-38 1/4)	x-1175 (x-46 3/8)	x-1515 (x-59 3/4)	x-2195 (x-86 1/2)	x-2875 (x-113 1/4)	x-3555 (x-140)	
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	min	6440 (253 5/8)	7690 (302 7/8)	9270 (365 1/8)	11630 (458)	15560 (612 3/4)	23420 (922 1/4)	31280 (1231 3/4)	39140 (1541 1/4)	
	max	9260 (364 5/8)	11060 (435 1/2)	13300 (523 3/4)	16670 (656 1/2)	22280 (877 3/8)	33490 (1318 3/4)	44710 (1760 1/2)	55930 (2202 1/4)	
b	min	c+131 (c+5 1/4)								
	max	c+143 (c+5 3/4)								
e		635 (25)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)	
x	min	c+131 (c+5 1/4)								
	max	c+715 (c+28 1/4)	c+823 (c+32 1/2)	c+959 (c+37 7/8)	c+1163 (c+45 7/8)	c+1503 (c+59 1/4)	c+2184 (c+86)	c+2864 (c+112 7/8)	c+3544 (c+139 5/8)	
Twin Stack (Floor Installation)										
a		6900 (271 3/4)	8240 (324 1/2)	9920 (390 5/8)	12440 (489 7/8)	16640 (655 1/4)	25050 (986 3/8)	33450 (1317 1/8)	41850 (1647 7/8)	



VPLL-3050

- 5.13:1 Throw ratio
- Fixed 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

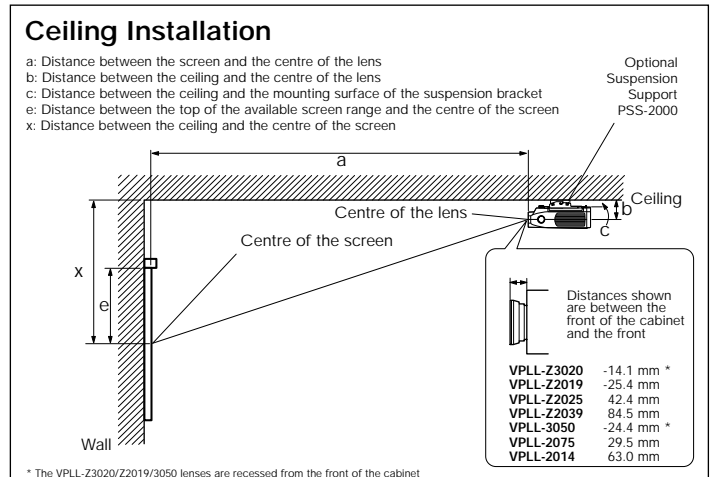
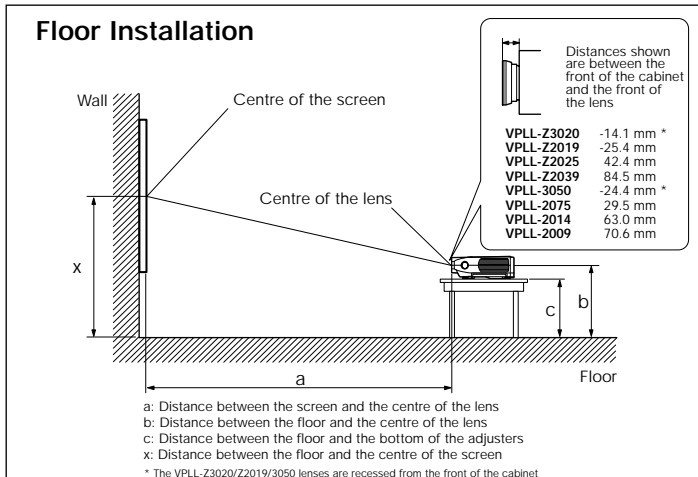
VPLL-2014 [4:3]										
Screen Size* (Inches)	40	80	100	120	150	200	300	400	500	
Floor Installation										
a	1060 (41 3/4)	2250 (88 5/8)	2840 (111 7/8)	3430 (135 1/8)	4320 (170 1/8)	5800 (228 3/8)	8760 (345)	11720 (461 1/2)	14690 (578 1/2)	
b	min	x-222 (x-8 3/4)	x-445 (x-17 1/2)	x-556 (x-21 7/8)	x-667 (x-26 1/4)	x-833 (x-32 7/8)	x-1111 (x-43 3/4)	x-1667 (x-65 3/4)	x-2223 (x-87 5/8)	x-2778 (x-109 1/2)
	max	x								
c	min	x-374 (x-14 3/4)	x-596 (x-23 1/2)	x-707 (x-27 7/8)	x-819 (x-32 1/4)	x-985 (x-38 7/8)	x-1263 (x-49 3/4)	x-1819 (x-71 5/8)	x-2374 (x-93 1/2)	x-2930 (x-115 3/8)
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	1060 (41 3/4)	2250 (88 5/8)	2840 (111 7/8)	3430 (135 1/8)	4320 (170 1/8)	5800 (228 3/8)	8760 (345)	11720 (461 1/2)	14690 (578 1/2)	
b	min	c+131 (c+5 1/4)								
	max	c+140 (c+5 1/2)								
e	305 (12 1/8)	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)	
x	min	c+131 (c+5 1/4)								
	max	c+363 (c+14 3/8)	c+585 (c+23 1/8)	c+696 (c+27 1/2)	c+807 (c+31 7/8)	c+974 (c+38 3/8)	c+1252 (c+49 3/8)	c+1807 (c+71 1/4)	c+2363 (c+93 1/8)	c+2919 (c+115)

VPLL-2075 [4:3]									
Screen Size* (Inches)	80	100	120	150	200	300	400	500	
Floor Installation									
a	12370 (487 1/8)	15420 (607 1/4)	18470 (727 3/8)	23050 (907 5/8)	30680 (1208 1/8)	45930 (1808 1/2)	61190 (2409 3/8)	76450 (3010 1/4)	
b	min	x-590 (x-23 1/4)	x-737 (x-29 1/8)	x-884 (x-34 7/8)	x-1106 (x-43 5/8)	x-1474 (x-58 1/8)	x-2211 (x-87 1/8)	x-2948 (x-116 1/8)	x-3685 (x-145 1/8)
	max	x							
c	min	x-745 (x-29 3/8)	x-892 (x-35 1/8)	x-1039 (x-41)	x-1261 (x-49 3/4)	x-1629 (x-64 1/4)	x-2366 (x-93 1/4)	x-3103 (x-122 1/4)	x-3840 (x-151 1/4)
	max	x-142 (x-5 5/8)							
Ceiling Installation									
a	12370 (487 1/8)	15420 (607 1/4)	18470 (727 3/8)	23050 (907 5/8)	30680 (1208 1/8)	45930 (1808 1/2)	61190 (2409 3/8)	76450 (3010 1/4)	
b	min	c+131 (c+5 1/4)							
	max	c+144 (c+5 3/4)							
e	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)	
x	min	c+131 (c+5 1/4)							
	max	c+733 (c+28 7/8)	c+881 (c+34 3/4)	c+1028 (c+40 1/2)	c+1249 (c+49 1/4)	c+1618 (c+63 3/4)	c+2355 (c+92 3/4)	c+3092 (c+121 3/4)	c+3829 (c+150 7/8)

VPLL-2014 [5:4 Screen: 4:3]										
Screen Size* (Inches)	42	80	100	120	150	200	300	400	500	
Floor Installation										
a	1040 (41)	2210 (87 1/8)	2650 (104 3/8)	3210 (126 1/2)	4040 (159 1/8)	5430 (213 7/8)	8200 (322 7/8)	10980 (432 3/8)	13750 (541 1/2)	
b	min	x-199 (x-7 7/8)	x-397 (x-15 3/4)	x-473 (x-18 5/8)	x-567 (x-22 3/8)	x-709 (x-28)	x-946 (x-37 1/4)	x-1419 (x-55 7/8)	x-1891 (x-74 1/2)	x-2364 (x-93 1/8)
	max	x								
c	min	x-349 (x-13 7/8)	x-548 (x-21 5/8)	x-624 (x-24 5/8)	x-718 (x-28 3/8)	x-860 (x-33 7/8)	x-1097 (x-43 1/4)	x-1569 (x-61 7/8)	x-2042 (x-80 7/16)	x-2515 (x-99 1/8)
	max	x-142 (x-5 5/8)								
Ceiling Installation										
a	1040 (41)	2210 (87 1/8)	2650 (104 3/8)	3210 (126 1/2)	4040 (159 1/8)	5430 (213 7/8)	8200 (322 7/8)	10980 (432 3/8)	13750 (541 1/2)	
b	min	c+131 (c+5 1/4)								
	max	c+140 (c+5 1/2)								
e	317 (12 1/2)	605 (23 7/8)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)	
x	min	c+131 (c+5 1/4)								
	max	c+338 (c+13 3/8)	c+537 (c+21 1/4)	c+612 (c+24 1/8)	c+707 (c+27 7/8)	c+849 (c+33 1/2)	c+1085 (c+42 3/4)	c+1558 (c+61 3/8)	c+2031 (c+80)	c+2504 (c+98 5/8)

VPLL-2075 [5:4 Screen: 4:3]									
Screen Size* (Inches)	84	100	120	150	200	300	400	500	
Floor Installation									
a	12170 (479 1/4)	14460 (569 3/8)	17320 (682)	21610 (851)	28760 (1132 1/2)	43050 (1695 1/8)	57350 (2258 1/4)	71650 (2821 1/4)	
b	min	x-571 (x-22 1/2)	x-680 (x-26 7/8)	x-816 (x-32 1/4)	x-1020 (x-40 1/4)	x-1360 (x-53 5/8)	x-2040 (x-80 3/8)	x-2720 (x-107 1/8)	x-3400 (x-134)
	max	x							
c	min	x-726 (x-28 5/8)	x-835 (x-32 7/8)	x-971 (x-38 1/4)	x-1175 (x-46 3/8)	x-1515 (x-59 3/4)	x-2195 (x-86 1/2)	x-2875 (x-113 1/4)	x-3555 (x-140)
	max	x-142 (x-5 5/8)							
Ceiling Installation									
a	12170 (479 1/4)	14460 (569 3/8)	17320 (682)	21610 (851)	28760 (1132 1/2)	43050 (1695 1/8)	57350 (2258 1/4)	71650 (2821 1/4)	
b	min	c+131 (c+5 1/4)							
	max	c+143 (c+5 3/4)							
e	635 (25)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)	
x	min	c+131 (c+5 1/4)							
	max	c+715 (c+28 1/4)	c+823 (c+32 1/2)	c+959 (c+37 7/8)	c+1163 (c+45 7/8)	c+1503 (c+59 1/4)	c+2184 (c+86)	c+2864 (c+112 7/8)	c+3544 (c+139 5/8)

Installations



VPLL-3050 [4:3]									
Screen Size* (inches)	80	100	120	150	200	300	400	500	
Floor Installation									
a	8200 (322 7/8)	10250 (403 5/8)	12290 (484)	15350 (604 1/2)	20460 (805 5/8)	30680 (1208 1/8)	40900 (1610 1/2)	51110 (2012 1/2)	
b	min	x-590 (x-23 1/4)	x-737 (x-29 1/8)	x-884 (x-34 7/8)	x-1106 (x-43 5/8)	x-1474 (x-58 1/8)	x-2211 (x-87 1/8)	x-2948 (x-116 1/8)	x-3685 (x-145 1/8)
	max	x							
c	min	x-745 (x-29 3/8)	x-892 (x-35 1/8)	x-1039 (x-41)	x-1261 (x-49 3/4)	x-1629 (x-64 1/4)	x-2366 (x-93 1/4)	x-3103 (x-122 1/4)	x-3840 (x-151 1/4)
	max	x-142 (x-5 5/8)							
Ceiling Installation									
a	8200 (322 7/8)	10250 (403 5/8)	12290 (484)	15350 (604 1/2)	20460 (805 5/8)	30680 (1208 1/8)	40900 (1610 1/2)	51110 (2012 1/2)	
b	min	c+131 (c+5 1/4)							
	max	c+144 (c+5 3/4)							
e	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1524 (60)	2286 (90 1/8)	3048 (120 1/16)	3810 (150 1/8)	
x	min	c+131 (c+5 1/4)							
	max	c+733 (c+28 7/8)	c+881 (c+34 3/4)	c+1028 (c+40 1/2)	c+1249 (c+49 1/4)	c+1618 (c+63 3/4)	c+2355 (c+92 3/4)	c+3092 (c+121 3/4)	c+3829 (c+150 7/8)

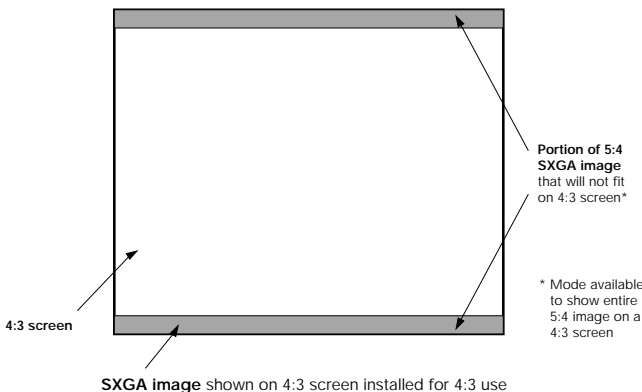
VPLL-3050 5:4 [Screen: 4:3]									
Screen Size* (inches)	84	100	120	150	200	300	400	500	
Floor Installation									
a	8070 (317 7/8)	9600 (378)	11520 (453 5/8)	14390 (566 5/8)	19180 (755 1/4)	28750 (1132 1/8)	38320 (1508 7/8)	47900 (1886 1/8)	
b	min	x-571 (x-22 1/2)	x-680 (x-26 7/8)	x-816 (x-32 1/4)	x-1020 (x-40 1/4)	x-1360 (x-53 5/8)	x-2040 (x-80 3/8)	x-2720 (x-107 1/8)	x-3400 (x-134)
	max	x							
c	min	x-726 (x-28 5/8)	x-835 (x-32 7/8)	x-971 (x-38 1/4)	x-1175 (x-46 3/8)	x-1515 (x-59 3/4)	x-2195 (x-86 1/2)	x-2875 (x-113 1/4)	x-3555 (x-140)
	max	x-142 (x-5 5/8)							
Ceiling Installation									
a	8070 (317 7/8)	9600 (378)	11520 (453 5/8)	14390 (566 5/8)	19180 (755 1/4)	28750 (1132 1/8)	38320 (1508 7/8)	47900 (1886 1/8)	
b	min	c+131 (c+5 1/4)							
	max	c+143 (c+5 3/4)							
e	635 (25)	756 (29 7/8)	907 (35 3/4)	1134 (44 3/4)	1512 (59 5/8)	2268 (89 3/8)	3024 (119 3/32)	3780 (148 7/8)	
x	min	c+131 (c+5 1/4)							
	max	c+715 (c+28 1/4)	c+823 (c+32 1/2)	c+959 (c+37 7/8)	c+1163 (c+45 7/8)	c+1503 (c+59 1/4)	c+2184 (c+86)	c+2864 (c+112 7/8)	c+3544 (c+139 5/8)

VPLL-2009 [4:3]										
Screen Size* (inches)	40	80	100	120	150	200	300	400	500	
Floor Installation										
a	660 (26)	1460 (57 1/2)	1860 (73 1/4)	2250 (88 5/8)	2850 (112 1/4)	3840 (151 1/4)	5830 (229 5/8)	7820 (308)	9810 (386 3/8)	
b	min	x-34 (x-1 3/8)	x-68 (x-2 3/4)	x-85 (x-3 3/8)	x-102 (x-4 1/8)	x-128 (x-5 1/8)	x-170 (x-6 3/4)	x-255 (x-10 1/8)	x-340 (x-13 1/2)	x-425 (x-16 3/4)
	centre	x								
c	max	x+11 (x+15/32)	x+23 (x+29/32)	x+28 (x+1 1/8)	x+34 (x+1 3/8)	x+43 (x+1 11/16)	x+57 (x+2 1/4)	x+85 (x+3 3/8)	x+113 (x+4 1/2)	x+142 (x+5 5/8)
	min	x-178 (x-7)	x-212 (x-8 3/8)	x-229 (x-9)	x-246 (x-9 3/4)	x-271 (x-10 3/4)	x-314 (x-12 3/8)	x-399 (x-15 3/4)	x-484 (x-19 1/8)	x-569 (x-22 1/2)
c	centre	x-142 (x-5 5/8)								
	max	x-76 (x-3)	x-64 (x-2 5/8)	x-59 (x-2 3/8)	-x+53 (x+0)	-x+44 (x+0)	-x+30 (x+0)	-x+2 (x+0)	x+26 (x+1 1/16)	x+55 (x+2 1/4)

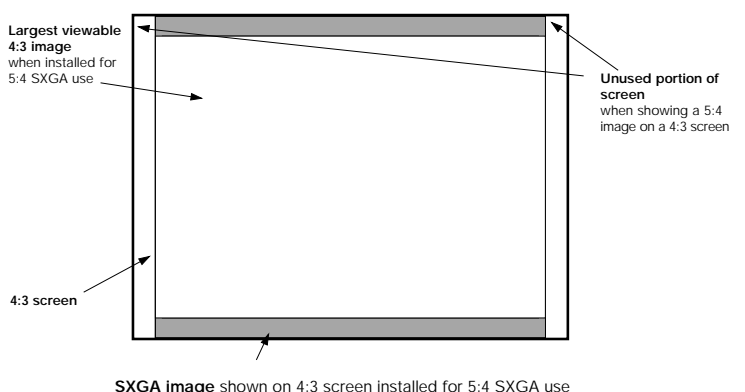
VPLL-2009 5:4 [Screen: 4:3]										
Screen Size* (inches)	42	80	100	120	150	200	300	400	500	
Floor Installation										
a	650 (25 5/8)	1430 (56 3/8)	1730 (68 1/8)	2100 (82 3/4)	2660 (104 3/4)	3590 (141 3/8)	5460 (215)	7320 (288 1/4)	9180 (361 1/2)	
b	min	x-13 (x-17/32)	x-27 (x-1 1/16)	x-32 (x-1 5/16)	x-38 (x-1 9/16)	x-48 (x-1 15/16)	x-64 (x-2 5/8)	x-96 (x-3 7/8)	x-128 (x-5 1/8)	x-159 (x-6 3/8)
	centre	x								
c	max	x+11 (x+7/16)	x+22 (x+29/32)	x+27 (x+1 1/16)	x+32 (x+1 5/16)	x+40 (x+1 5/8)	x+53 (x+2 1/8)	x+80 (x+3 1/4)	x+106 (x+4 1/4)	x+133 (x+5 1/4)
	min	x-156 (x-6 1/4)	x-169 (x-6 3/4)	x-174 (x-6 7/8)	x-181 (x-7 1/8)	x-190 (x-7 1/2)	x-206 (x-8 1/8)	x-238 (x-9 1/2)	x-270 (x-10 3/4)	x-302 (x-12)
c	centre	x-142 (x-5 5/8)								
	max	x-76 (x-3)	x-65 (x-2 5/8)	x-60 (x-2 1/2)	x-55 (x-2 1/4)	x-47 (x-1 7/8)	x-34 (x-1 3/8)	-x+7 (x+0)	x+19 (x+25/32)	x+46 (x+1 13/16)

Aspect Ratios

4:3 screen installed
for use with 4:3 aspect ratio sources



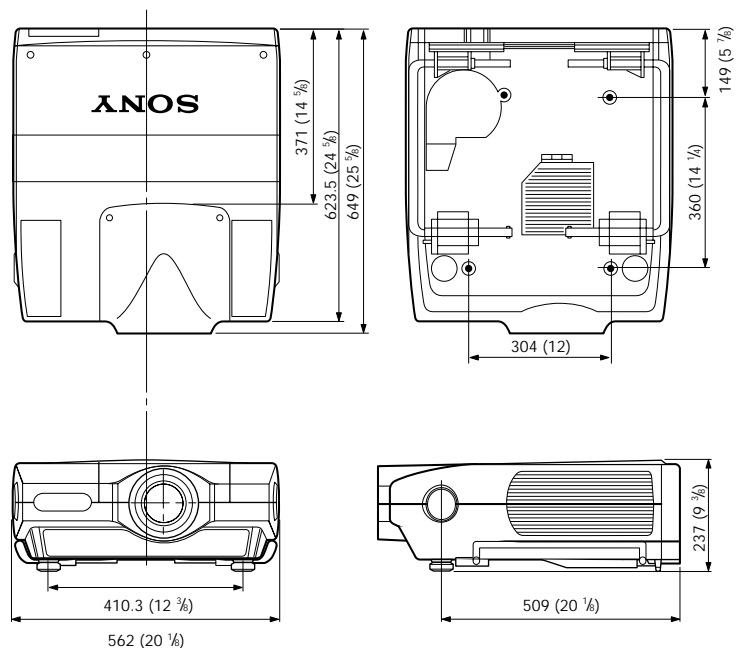
4:3 screen installed
for use with 5:4 aspect ratio SXGA source



Specifications VPL-FE110U/FE110M

Optical	
Projection system	3 LCD panels, 1 lens projection
LCD panel	1.8-inch TFT LCD panel, 3,932,160 pixels (1,310,720 pixels x3), with Micro Lens Array
Lamp	120 W UHP lamp (x4)
Light output	4000 ANSI lumens*1 (typical)
Projection picture size	40 to 500 inches (viewable area, measured diagonally)
General	
Colour system	NTSC/PAL/SECAM/NTSC4.43/PAL-M (automatically selected)
Resolution	Video: 600 TV lines RGB: 1280 x 1024 pixels
Scanning frequency	FH: 15 kHz – 100 kHz FV: 40 Hz – 120 Hz Display area: > 6.4 µsec
Speaker	5 W mono
Power requirements	VPL-FE110U: AC 100 to 120 V/220 to 240 V, 50/60 Hz (UL listed for AC 120 V operation only) VPL-FE110M: AC 220 to 240 V, 50/60 Hz
Power consumption	VPL-FE110U: 830 W (Max.), 6.8 W (Standby) VPL-FE110M: 830 W (Max.), 12 W (Standby)
Heat dissipation	2833 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 Composite video	Loop-through BNC 1.0 Vp-p ± 2 dB sync negative, 75 Ω
S VIDEO IN	
Y IN	BNC 1.0 Vp-p ± 2 dB sync negative, 75 Ω
C IN	BNC Burst 0.286 Vp-p ± 2 dB (NTSC), 75 Ω or 0.3 Vp-p ± 2 dB (PAL), 75 Ω
Y/C IN Y (luminance) C (chrominance)	Loop-through Mini DIN 4-pin 1.0 Vp-p ± 2 dB sync negative, 75 Ω Burst 0.286 Vp-p ± 2 dB (NTSC), 75 Ω or 0.3 Vp-p ± 2 dB (PAL), 75 Ω
AUDIO IN	Phono, stereo, 500 mV rms, impedance more than 47 kΩ
INPUT A	
Analogue RGB/Component R/R-Y G G with sync/Y B/B-Y SYNCH/HD Composite sync Horizontal sync VD Vertical sync	BNC x 5 0.7 Vp-p ± 2 dB positive, 75 Ω 0.7 Vp-p ± 2 dB positive, 75 Ω 1.0 Vp-p ± 2 dB sync negative, 75 Ω 0.7 Vp-p ± 2 dB positive, 75 Ω 0.6 – 8.0 Vp-p high impedance, sync positive/negative 0.6 – 8.0 Vp-p high impedance, sync positive/negative 0.6 – 8.0 Vp-p high impedance, sync positive/negative
HDTV (Y/Ps/Pc) Y Pb/Pc	BNC 1.0 Vp-p ± 2 dB positive, 75 Ω, Tri-level sync: ± 0.3 Vp-p Bi-level sync: 0.3 Vp-p ± 0.35 Vp-p ± 2 dB positive, 75 Ω
HDTV (GBR) G with sync B/R	BNC 1.0 Vp-p ± 2 dB, 75 Ω, Tri-level sync: ± 0.3 Vp-p Bi-level sync: 0.3 Vp-p 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	Open for optional IFB board
INPUT C	PC Card slot (Type II) x 1
CONTROL S IN/ PLUG IN POWER	Stereo mini jack 5.0 Vp-p, Plug in power DC 5 V maximum output 60 mA
CONTROL S OUT	Stereo mini jack 5.0 Vp-p
REMOTE RS-232C/ RS-422A*2 PJ COM*3	D-sub 9-pin (female) D-sub 9-pin x2 (female)
TRIG	Mini jack Power ON: 12 V, output impedance 4.7 kΩ Power OFF: 0 V
Safety Regulations	
VPL-FE110U VPL-FE110M	UL1950, cUL1950, FCC Class A, IC Class A EN 60 950 (Nemko), CE, C-tick, CCB

Accessories	
SUPPLIED ACCESSORIES	
Remote Commander RM-PJ1001 Remote Commander Cable (15 m) Size AA (R6) Battery (x3) AC Power Cord PJ COM Termination Lens Ring Operation Manual Noise Prevention Core Warranty Booklet	
OPTIONAL ACCESSORIES	
LMP-Q130 LMP-S120 VPLL-Z3020 VPLL-Z2019 VPLL-Z2025 VPLL-Z2039 VPLL-3050 VPLL-2075 VPLL-2014 VPLL-2009 SU-PJ2000 PSS-2000 PSS-10 ADP-20 SMF-400 SMF-410 IFB-12A/21/50/1000 SIC-10 PC-3000 RCC-5G/10G/30G RM-PJM610*4 RM-PJ3000S*4 RM-PJ10	Projector Quad Lamp (for replacement) Projector Individual Lamp 1.3 times zoom Standard Focus Lens 1.3 times zoom Standard Focus Lens 1.6 times zoom Long Focus Lens 1.5 times zoom Long Focus Lens Fixed Long Focus Lens Fixed Long Focus Lens Fixed Short Focus Lens Fixed Short Focus Lens Stack Stand (for twin and triple stacking) Suspension Support Suspension Support Signal Adaptor Macintosh® → VGA D-sub HD 15-pin → 5 BNC Cable D-sub HD 15-pin → D-sub HD 15-pin Interface Board Signal Interface Cable Signal Interface Switcher 9-pin Remote Cable (for RS-422A) Remote Commander Remote Commander Remote Control Receiver
Dimensions	
unit: mm (inches)	



*1 ANSI lumens is a measuring method of the American National Standards Institute ANSI IT7.228
*2 RS-232C/RS-422A selectable
*3 PJ COM complies with RS-485
*4 Laser Type: Class II



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