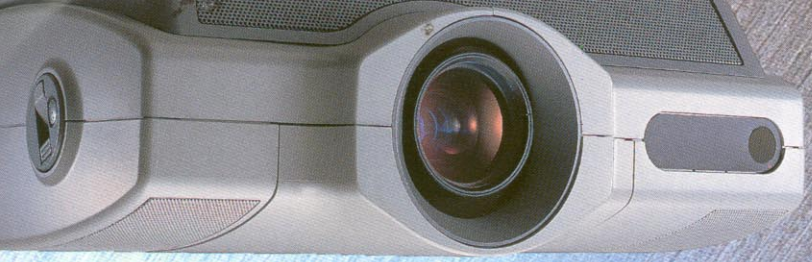
SONY

LCD Data Projector

VPL-X2000U/X2000M

With optional VPLL-Z2019 lens



The Sony VPL-X2000 – Excellent 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-X2000 LCD Data Projector from Sony has exactly what you are looking for - excellent picture performance, with the essential system expansion capability you need for the future.*

The VPL-X2000 uses the very latest Sony projector technology. It provides the incredible brightness of 2400 ANSI lumens. Picture quality and uniformity are superb. Lens and input options, together with a full range of accessories, mean that the VPL-X2000 can be configured to 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.

*The VPL-X2000 is available in two models: the VPL-X2000U for countries operating at AC 100-120 V and the VPL-X2000M for AC 220-240 V.

VPL-X2000

Outstanding brightness of 2400 ANSI lumens

Using three 1.8-inch Sony LCD panels, the VPL-X2000 delivers an outstanding brightness of 2400 ANSI lumens - your large image will be clear even in areas with ambient light.

Excellent picture performance

The advanced technologies of the VPL-X2000 provide excellent picture performance. This projector utilizes 3D Digital gamma correction for superb picture uniformity, as well as exclusive Sony DRC (Digital Reality Creation) 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 memorized waveform patterns. As a result, you will 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-X2000 is compatible with a variety of input sources: composite, Y/C, component (Y/R-Y/B-Y) and RGB video, computer signals (up to UXGA, 1600 x 1200, fV: 60 Hz) with a horizontal frequency of 15 to 94 kHz and a vertical frequency of 38 to 120 Hz, and HDTV*.

The multiscan technology employed by the VPL-X2000 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-X2000 supports 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.

SYSTEM VERSATILITY

The VPL-X2000 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.

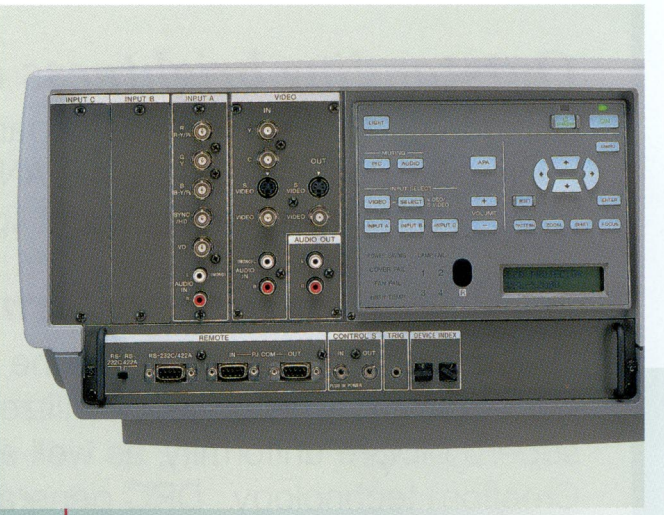
The use of a PC-3000 Signal Interface Switcher will further enhance the ability of the projector to handle multiple signals simultaneously. The VPL-X2000 also supports RS-232C/RS-422A control interfacing.

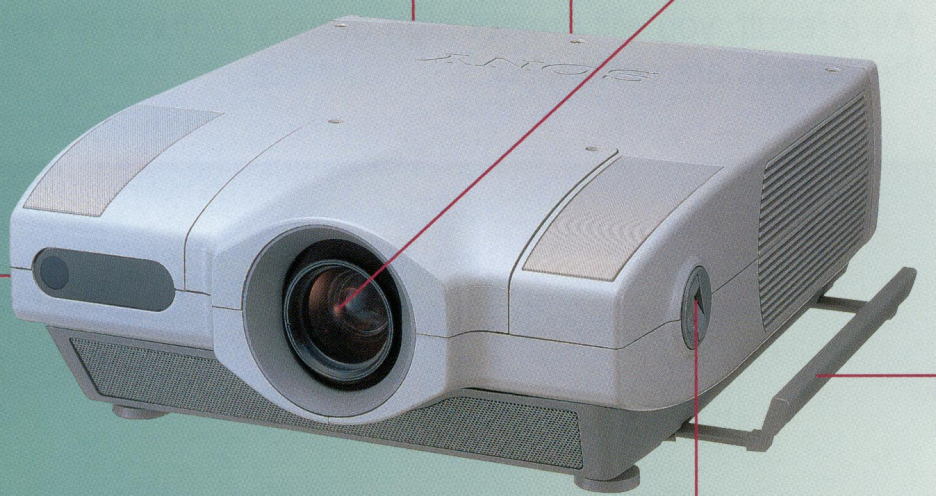
FAIL SAFE

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

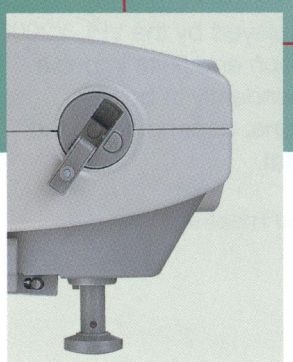




Optional lens (Photo: VPLL-Z2019)

Carrying handles (both sides)

Pop-out cranks (both sides)



ADJUSTABLE FEET

The VPL-X2000 has newly designed 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-X2000 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 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 commander unit. The projected image can be shifted up and down using the Picture Shift feature.

*Some optional lenses do not support the zoom function.

STACKING CAPABILITY*

The VPL-X2000 can be twin or triple stacked using optional SU-PJ2000 projector stands. When stacked, the brightness is significantly increased.

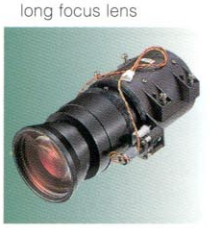
*The fixed focus lenses (VPLL-2075/2014/2009) cannot be used when the VPL-X2000 is stacked.

OPTIONAL LENSES

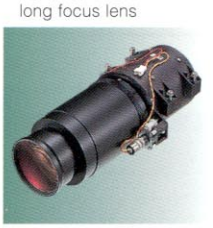
Note: Throw ratio is the distance between the center of the projector lens and the screen, divided by the screen width.

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

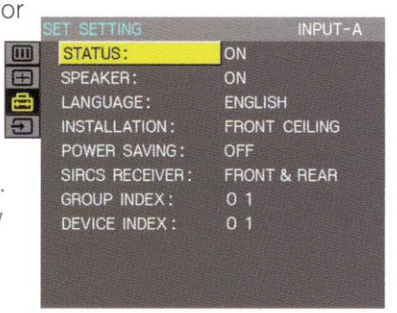
EASY OPERATION

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-X2000 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.



REMOTE CONTROL

The RM-PJ1001 Wired / Wireless Remote Commander unit is supplied with the VPL-X2000 and controls all projector functions. The optional RM-PJ3000S Wired / Wireless Remote Commander unit 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-X2000 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

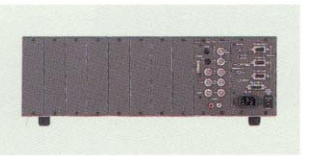
The VPL-X2000 has a TRIG terminal to provide control of an integrated projection room, including screens, curtains, and lighting.

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 analog 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-20

- Analog RGB input/output
- RGB bandwidth of 120 MHz

IFB-21

- Analog 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 color/ 16 color/ 64 color 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)

INTERFACE CABLES

SIC-20A/20B/20C

- Analog 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-21

- Analog 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

- Analog 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

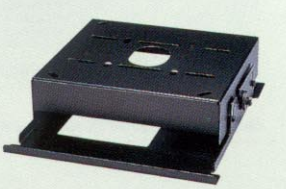
OTHER ACCESSORIES

SU-PJ2000

Projector stand
(for twin and triple stacking)

PSS-2000

Suspension support

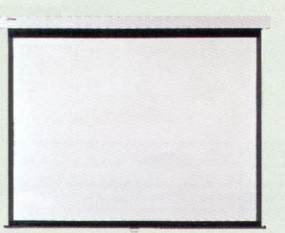


VPS-100FH

100-inch flat screen*

VPS-120FH

120-inch flat screen*

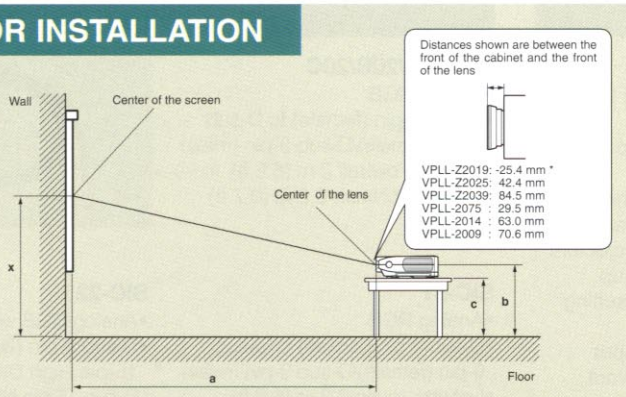


*viewable area, measured diagonally

PSS-10

Suspension support

FLOOR INSTALLATION



a: Distance between the screen and the center of the lens
b: Distance between the floor and the center of the lens
c: Distance between the floor and the bottom of the adjusters
x: Free

* The VPLL-Z2019 lens is recessed from the front of the cabinet.

VPLL-Z2019

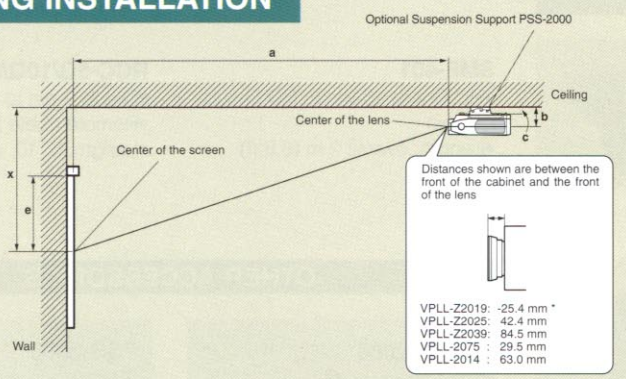
Screen Size (inches)		40	80	100	120	150	180
a	min	1490 (58 3/4)	3080 (121 3/8)	3870 (152 1/2)	4670 (184)	5860 (230 3/4)	7050 (277 5/8)
	max	1890 (74 1/2)	3880 (152 7/8)	4880 (192 1/4)	5870 (231 1/4)	7370 (290 1/4)	8860 (348 7/8)
b	min	x-287 (x-11 3/8)	x-573 (x- 22 5/8)	x-717 (x-28 1/4)	x-860 (x-33 7/8)	x-1075 (x-42 3/8)	x-1290 (x-50 7/8)
	max						
c	min	x-442 (x-17 1/2)	x-728 (x-28 3/4)	x-872 (x-34 3/8)	x-1015 (x-40)	x-1230 (x-48 1/2)	x-1445 (x-57)
	max						

When two projectors are stacked

Screen Size (inches)		80	100	120	150	180
a		3710 (146 1/8)	4650 (183 1/8)	5600 (220 1/2)	7020 (276 7/16)	8430 (332)

* VPLL-2075, VPLL-2014, and VPLL-2009 cannot be used when the VPL-X

CEILING INSTALLATION



a: Distance between the screen and the center of the lens
b: Distance between the ceiling and the center of the lens
c: Distance between the ceiling and the mounting surface of the suspension bracket
e: Distance between the top of the available screen range and the center of the screen
x: Distance between the ceiling and the center of the screen

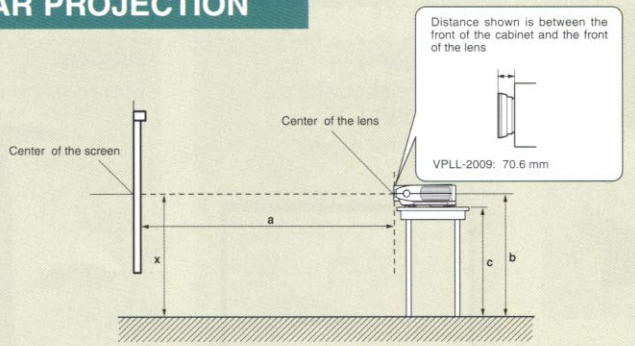
* The VPLL-Z2019 lens is recessed from the front of the cabinet.

Note: When using the PSS-2000 Projector suspension support, c=104.7 (4 1/8), x (min)=e

VPLL-Z2019

Screen Size (inches)		40	80	100	120	150	180
a	min	1490 (58 3/ 4)	3080 (121 3/ 8)	3870 (152 1/ 2)	4670 (184)	5860 (230 3/ 4)	7050 (277 5/ 8)
	max	1890 (74 1/2)	3880 (152 7/8)	4880 (192 1/4)	5870 (231 1/4)	7370 (290 1/4)	8860 (348 7/8)
b	min						
	max						
e		305 (12 1/8)	610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)
x	min						
	max	c+430 (c+17)	c+717 (c+28 1/4)	c+860 (c+33 7/8)	c+1003 (c+39 1/2)	c+1218 (c+48)	c+1433 (c+56 1/2)

REAR PROJECTION



a: Distance between the screen and the center of the lens
b: Distance between the floor and the center of the lens
c: Distance between the floor and the bottom of the projector
x: Free

VPLL-2009*

Screen Size (inches)		40	80	100	120	150	180
a		640 (25 1/4)	1410 (55 5/8)	1800 (70 7/8)	2190 (86 1/4)	2770 (109 1/8)	3350 (132)
b	min	x-11 (x-7/16)	x-22 (x-7/8)	x-28 (x-1 1/8)	x-33 (x-1 5/16)	x-41 (x-1 11/16)	x-50 (x-2)
	center						
	max	x+11 (x+7/16)	x+22 (x+7/8)	x+28 (x+1 1/8)	x+33 (x+1 5/16)	x+41 (x+1 11/16)	x+50 (x+2)
c	min	x-154 (x-6 1/8)	x-165 (x-6 1/2)	x-170 (x-6 3/4)	x-176 (x-7)	x-184 (x-7 1/4)	x-192 (x-7 5/8)
	center						
	max	x-130 (x-5 1/4)	x-119 (x-4 3/4)	x-114 (x-4 1/2)	x-108 (x-4 3/8)	x-100 (x-4)	x-92 (x-3 5/8)

unit = mm (inches)

80	200	250	300	350	400	450	500
050 7 5/8)	7850 (309 1/8)	9840 (387 1/2)	11820 (465 1/2)	13810 (543 7/8)	15800 (622 1/8)	17790 (700 1/2)	19780 (778 7/8)
860 7 7/8)	9860 (388 1/4)	12350 (486 3/8)	14840 (584 3/8)	17330 (682 3/8)	19810 (780 1/8)	22300 (878 1/8)	24790 (976 1/8)
290 0 7/8)	x-1433 (x- 56 1/2)	x-1791 (x-70 5/8)	x-2150 (x-84 3/4)	x-2508 (x-98 3/4)	x-2866 (x-112 7/8)	x-3225 (x-127)	x-3583 (x-141 1/8)
	x						
445 57)	x-1588 (x-62 5/8)	x-1946 (x-76 3/4)	x-2305 (x-90 3/4)	x-2663 (x-104 7/8)	x-3021 (x-118 31/32)	x-3380 (x-133 1/8)	x-3738 (x-147 1/4)
	x-142 (x-5 5/8)						

80	200	250	300	350	400	450	500
330 32)	9380 (369 3/8)	11740 (462 3/8)	14110 (555 5/8)	16470 (648 5/8)	18840 (741 7/8)	21200 (834 3/4)	23560 (927 3/4)

PL-X2000 is stacked.

VPLL-Z2025

unit = mm (inches)

Screen Size (inches)		80	100	120	150	180	200	250	300	350	400	450	500
a	min	3980 (156 3/4)	5020 (197 11/16)	6060 (238 5/8)	7620 (300 1/8)	9180 (361 1/2)	10220 (402 1/2)	12830 (505 1/4)	15430 (607 5/8)	18030 (709 15/16)	20630 (812 3/8)	23230 (914 3/4)	25830 (1017 1/8)
	max	6160 (242 5/8)	7750 (305 1/4)	9330 (367 3/8)	11710 (461 1/8)	14080 (554 1/2)	15660 (616 5/8)	19620 (772 5/8)	23580 (928 1/2)	27540 (1084 1/2)	31500 (1240 3/8)	35460 (1396 1/4)	39420 (1552 1/4)
b	min	x-573 (x-22 5/8)	x-717 (x-28 1/4)	x-860 (x-33 7/8)	x-1075 (x-42 3/8)	x-1290 (x-50 7/8)	x-1433 (x-56 1/2)	x-1791 (x-70 5/8)	x-2150 (x-84 3/4)	x-2508 (x-98 3/4)	x-2866 (x-112 7/8)	x-3225 (x-127)	x-3583 (x-141 1/8)
	max						x						
c	min	x-728 (x-28 3/4)	x-872 (x-34 3/8)	x-1015 (x-40)	x-1230 (x-48 1/2)	x-1445 (x-57)	x-1588 (x-62 5/8)	x-1946 (x-76 3/4)	x-2305 (x-90 3/4)	x-2663 (x-104 7/8)	x-3021 (x-118 31/32)	x-3380 (x-133 1/8)	x-3738 (x-147 1/4)
	max						x-142 (x- 5 5/ 8)						

When two projectors are stacked

Screen Size (inches)	80	100	120	150	180	200	250	300	350	400	450	500
a	4530 (178 3/8)	5710 (224 7/8)	6890 (271 3/8)	8660 (34)	10420 (410 3/8)	11600 (456 3/4)	14540 (572 5/8)	17490 (688 3/4)	20430 (804 1/2)	23370 (920 1/4)	26320 (1036 3/8)	29260 (1152 1/8)

unit = mm (inches)

80	200	250	300	350	400	450	500
050 7 5/ 8)	7850 (309 1/8)	9840 (387 1/2)	11820 (465 1/2)	13810 (543 7/8)	15800 (622 1/8)	17790 (700 1/2)	19780 (778 7/8)
860 3 7/8)	9860 (388 1/4)	12350 (486 3/8)	14840 (584 3/8)	17330 (682 3/8)	19810 (780 1/8)	22300 (878 1/8)	24790 (976 1/8)
	c+130.6 (c+5 1/4)						
	c+143.6 (c+5 3/4)						
372 1/8)	1524 (60)	1905 (75 1/8)	2286 (90 1/8)	2667 (105 1/8)	3048 (120 1/16)	3429 (135 1/8)	3810 (150 1/8)
	c+130.6 (c+5 1/4)						
1433 56 1/2)	c +1577 (c+62 1/8)	c+1935 (c+76 1/4)	c+2293 (c+90 3/8)	c+2652 (c+104 1/2)	c+3010 (c+118 5/32)	c+3368 (c+132 5/8)	c+3726 (c+146 3/4)

VPLL-Z2025

unit = mm (inches)

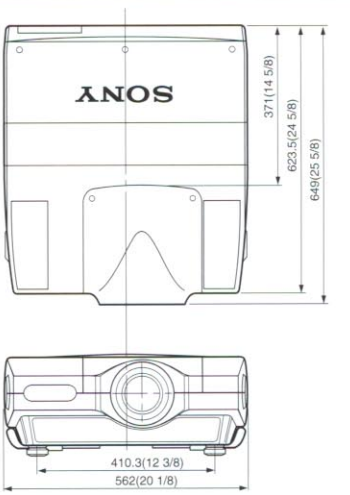
Screen Size (inches)		80	100	120	150	180	200	250	300	350	400	450	500
a	min	3980 (156 3/4)	5020 (197 11/16)	6060 (238 5/8)	7620 (300 1/8)	9180 (361 1/2)	10220 (402 1/2)	12830 (505 1/4)	15430 (607 5/8)	18030 (709 15/16)	20630 (812 3/8)	23230 (914 3/4)	25830 (1017 1/8)
	max	6160 (242 5/8)	7750 (305 1/4)	9330 (367 3/8)	11710 (461 1/8)	14080 (554 1/2)	15660 (616 5/8)	19620 (772 5/8)	23580 (928 1/2)	27540 (1084 1/2)	31500 (1240 3/8)	35460 (1396 1/4)	39420 (1552 1/4)
b	min						c+130.6 (c+5 1/4)						
	max						c+143.6 (c+5 3/4)						
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75 1/8)	2286 (90 1/8)	2667 (105 1/8)	3048 (120 1/16)	3429 (135 1/8)	3810 (150 1/8)
x	min						c+130.6 (c+5 1/4)						
	max	c+717 (c+28 1/4)	c+860 (c+33 7/8)	c+1003 (c+39 1/2)	c+1218 (c+48)	c+1433 (c+56 1/2)	c+1577 (c+62 1/8)	c+1935 (c+76 1/4)	c+2293 (c+90 3/8)	c+2652 (c+104 1/2)	c+3010 (c+118 5/32)	c+3368 (c+132 5/8)	c+3726 (c+146 3/4)

unit = mm (inches)

180	200	250	300	350	400	450	500
350 132)	3730 (146 7/8)	4700 (185 1/8)	5670 (223 3/ 8)	6630 (261 1/ 8)	7600 (299 1/ 4)	8570 (337 1/ 2)	9530 (375 1/ 4)
-50 x-2)	x-55 (x- 2 1/4)	x-69 (x- 2 3/4)	x-83 (x- 3 3/ 8)	x-96 (x- 3 7/ 8)	x-110 (x- 4 3/ 8)	x-124 (x- 5)	x-138 (x- 5 1/ 2)
	x						
+50 x+2)	x+55 (x+2 1/4)	x+69 (x+2 3/4)	x+83 (x+3 3/8)	x+96 (x+3 7/8)	x+110 (x+4 3/8)	x+124 (x+5)	x+138 (x+5 1/2)
-192 7 5/8)	x-198 (x-7 7/8)	x-211 (x-8 3/8)	x-225 (x-8 7/8)	x-239 (x-9 1/2)	x-253 (x-10)	x-267 (x-10 1/2)	x-280 (x-11 1/8)
	x-142 (x- 5 5/ 8)						
-92 3 5/8)	x-86 (x-3 1/2)	x-73 (x-2 7/8)	x-59 (x-2 3/8)	x-45 (x-1 13/16)	x-31 (x-1 1/4)	x-17 (x-11/16)	x-4 (x-5/32)

Dimensions

unit = mm (inches)



EXAMPLES

VPLL-Z2039

unit = mm (inches)

Screen Size (inches)		80	100	120	150	180	200	250	300	350	400	450	500
a	min	6360 (250 1/2)	7990 (314 5/8)	9620 (378 7/8)	12070 (475 3/8)	14510 (571 3/8)	16150 (636)	20220 (796 1/4)	24300 (956 7/8)	28380 (1117 1/2)	32460 (1278 1/8)	36540 (1438 7/8)	40620 (1599 1/2)
	max	9150 (360 3/8)	11480 (452 1/8)	13810 (543 7/8)	17300 (681 1/4)	20790 (818 5/8)	23120 (910 3/8)	28940 (1139 5/8)	34760 (1368 3/4)	40570 (1597 1/2)	46390 (1826 5/8)	52210 (2055 7/8)	58030 (2284 15/16)
b	min	x-573 (x-22 5/8)	x-717 (x-28 1/4)	x-860 (x-33 7/8)	x-1075 (x-42 3/8)	x-1290 (x-50 7/8)	x-1433 (x-56 1/2)	x-1791 (x-70 5/8)	x-2150 (x-84 3/4)	x-2508 (x-98 3/4)	x-2866 (x-112 7/8)	x-3225 (x-127)	x-3583 (x-141 1/8)
	max						x						
c	min	x-728 (x-28 3/4)	x-872 (x-34 3/8)	x-1015 (x-40)	x-1230 (x-48 1/2)	x-1445 (x-57)	x-1588 (x-62 5/8)	x-1946 (x-76 3/4)	x-2305 (x-90 3/4)	x-2663 (x-104 7/8)	x-3021 (x-118 31/32)	x-3380 (x-133 1/8)	x-3738 (x-147 1/4)
	max						x-142 (x-5 5/8)						

When two projectors are stacked

Screen Size (inches)	80	100	120	150	180	200	250	300	350	400	450	500
a	6840 (269 3/8)	8590 (338 1/4)	10340 (407 1/4)	12970 (510 3/4)	15590 (613 7/8)	17340 (682 7/8)	21720 (855 1/4)	26100 (1027 3/4)	30470 (1199 7/8)	34850 (1372 1/4)	39230 (1544 3/4)	43600 (1716 3/4)

VPLL-2075*

Screen Size (inches)		80	100	120	150	180	200
a		12030 (473 11/16)	15000 (590 5/8)	17960 (707 1/4)	22410 (882 1/2)	26860 (1057 5/8)	29830 (1174 5/8)
b	min	x-573 (x-22 5/8)	x-717 (x-28 1/4)	x-860 (x-33 7/8)	x-1075 (x-42 3/8)	x-1290 (x-50 7/8)	x-1433 (x-56 1/2)
	max						x
c	min	x-728 (x-28 3/4)	x-872 (x-34 3/8)	x-1015 (x-40)	x-1230 (x-48 1/2)	x-1445 (x-57)	x-1588 (x-62 5/8)
	max						x-142 (x-5 5/8)

VPLL-2014*

Screen Size (inches)		40	80	100	120	150	180	2
a		1030 (40 5/8)	2180 (85 7/8)	2760 (108 3/4)	3330 (131 1/8)	4200 (165 3/8)	5060 (199 1/4)	5
b	min	x-198 (x-7 7/8)	x-397 (x-15 5/8)	x-496 (x-19 5/8)	x-595 (x-23 1/2)	x-744 (x-29 3/8)	x-893 (x-35 1/4)	x-
	max							
c	min	x-349 (x-13 78)	x-548 (x-21 5/8)	x-647 (x-25 1/2)	x-746 (x-29 1/2)	x-895 (x-35 1/4)	x-1044 (x- 41 1/8)	x-
	max							x-

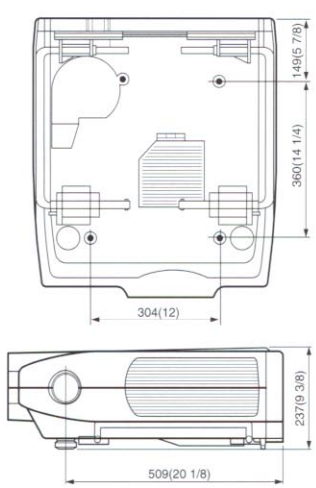
VPLL-Z2039

unit = mm (inches)

Screen Size (inches)		80	100	120	150	180	200	250	300	350	400	450	500
a	min	6360 (250 1/2)	7990 (314 5/8)	9620 (378 7/8)	12070 (475 3/8)	14510 (571 3/8)	16150 (636)	20220 (796 1/4)	24300 (956 7/8)	28380 (1117 1/2)	32460 (1278 1/8)	36540 (1438 7/8)	40620 (1599 1/2)
	max	9150 (360 3/8)	11480 (452 1/8)	13810 (543 7/8)	17300 (681 1/4)	20790 (818 5/8)	23120 (910 3/8)	28940 (1139 5/8)	34760 (1368 3/4)	40570 (1597 1/2)	46390 (1826 5/8)	52210 (2055 7/8)	58030 (2284 15/16)
b	min						c+130.6 (c+5 1/4)						
	max						c+143.6 (c+5 3/4)						
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)	1905 (75 1/8)	2286 (90 1/8)	2667 (105 1/8)	3048 (120 1/16)	3429 (135 1/8)	3810 (150 1/8)
x	min						c+130.6 (c+5 1/4)						
	max	c+717 (c+28 1/4)	c+860 (c+33 7/8)	c+1003 (c+39 1/2)	c+1218 (c+48)	c+1433 (c+56 1/2)	c+1577 (c+62 1/8)	c+1935 (c+76 1/4)	c+2293 (c+90 3/8)	c+2652 (c+104 1/2)	c+3010 (c+118 5/32)	c+3368 (c+132 5/8)	c+3726 (c+146 3/4)

VPLL-2075*

Screen Size (inches)		80	100	120	150	180	200
a		12030 (473 11/16)	15000 (590 5/8)	17960 (707 1/4)	22410 (882 1/2)	26860 (1057 5/8)	29830 (1174 5/8)
b	min						c+130.6 (c+5 1/4)
	max						c+143.6 (c+5 3/4)
e		610 (24 1/8)	762 (30)	914 (36)	1143 (45)	1372 (54 1/8)	1524 (60)
x	min						c+130.6 (c+5 1/4)
	max	c+717 (c+28 1/4)	c+860 (c+33 7/8)	c+1003 (c+39 1/2)	c+1218 (c+48)	c+1433 (c+56 1/2)	c+1577 (c+62 1/8)



VPL-X2000 Input Signal Preset Data

Memory No.	Preset Signal		fH (kHz)
1	VIDEO	525/60	15.734
2		625/50	15.625
3		15 kHz RGB (60 Hz)	15.734
4		15 kHz RGB (50 Hz)	15.625
5	HDTV	HDTV	33.750
6	640x350	VGA-1(VGA350)	31.469
7		VESA 85(VGA350)	37.861
8	640x400	NEC PC98	24.823
9		VGA-2(TEXT)/VESA70	31.469
10		VESA 85(VGA400)	37.861
11	640x480	VESA 60	31.469
12		Mac 13	35.000
13		VESA 72	37.861
14		VESA 75(IBM M3)	37.500
15		VESA 85(IBM M4)	43.269
16	800x600	VESA 56	35.156
17		VESA 60	37.879
18		VESA 72	48.077
19		VESA 75(IBM M5)	46.875
20		VESA 85	53.674

unit = mm (inches)

250	300	350	400	450	500
37250 (1466 3/4)	44660 (1758 1/2)	52080 (2050 3/4)	59500 (2342 7/8)	66910 (2634 5/8)	74330 (2926 3/4)
x-1791 (x-70 5/8)	x-2150 (x-84 3/4)	x-2508 (x-98 3/4)	x-2866 (x-112 7/8)	x-3225 (x-127)	x-3583 (x-141 1/ 8)
x-1946 (x-76 3/4)	x-2305 (x-90 3/4)	x-2663 (x-104 7/8)	x-3021 (x-118 31/32)	x-3380 (x-133 1/8)	x-3738 (x-147 1/4)

unit = mm (inches)

200	250	300	350	400	450	500
640 (2 1/8)	7080 (278 7/8)	8520 (335 1/2)	9960 (392 1/4)	11400 (448 7/8)	12840 (505 5/8)	14280 (562 3/8)
992 (39 1/8)	x-1240 (x-48 7/8)	x-1488 (x-58 5/8)	x-1736 (x-68 3/8)	x-1984 (x-78 1/4)	x-2232 (x-88)	x-2480 (x-97 3/4)
x						
1143 (45 1/8)	x-1391 (x-54 7/8)	x-1639 (x-64 5/8)	x-1887 (x-74 3/8)	x-2135 (x-84 1/8)	x-2383 (x-93 7/8)	x-2631 (x-103 5/8)
142 (5 5/8)						

VPLL-2009*

unit = mm (inches)

Screen Size (inches)		40	80	100	120	150	180	200	250	300	350	400	450	500
a		640 (25 1/4)	1410 (55 5/8)	1800 (70 7/8)	2190 (86 1/4)	2770 (109 1/8)	3350 (132)	3730 (146 7/8)	4700 (185 1/ 8)	5670 (223 3/ 8)	6630 (261 1/ 8)	7600 (299 1/ 4)	8570 (337 1/ 2)	9530 (375 1/ 4)
b	min	x-11 (x-7/16)	x-22 (x-7/8)	x-28 (x-1 1/8)	x-33 (x-1 5/16)	x-41 (x-1 11/16)	x-50 (x-2)	x-55 (x-2 1/4)	x-69 (x-2 3/4)	x-83 (x-3 3/8)	x-96 (x-3 7/8)	x-110 (x-4 3/8)	x-124 (x-5)	x-138 (x-5 1/2)
	center							x						
	max	x+11 (x+7/16)	x+22 (x+7/8)	x+28 (x+1 1/8)	x+33 (x+1 5/16)	x+41 (x+1 11/16)	x+50 (x+2)	x+55 (x+2 1/4)	x+69 (x+2 3/4)	x+83 (x+3 3/8)	x+96 (x+3 7/8)	x+110 (x+4 3/8)	x+124 (x+5)	x+138 (x+5 1/2)
c	min	x-154 (x-6 1/8)	x-165 (x-6 1/2)	x-170 (x-6 3/4)	x-176 (x-7)	x-184 (x-7 1/4)	x-192 (x-7 5/8)	x-198 (x-7 7/8)	x-211 (x-8 3/8)	x-225 (x-8 7/8)	x-239 (x-9 1/2)	x-253 (x-10)	x-267 (x-10 1/2)	x-280 (x-11 1/ 8)
	center							x-142 (x-5 5/8)						
	max	x-130 (x-5 1/4)	x-119 (x-4 3/4)	x-114 (x-4 1/2)	x-108 (x-4 3/8)	x-100 (x-4)	x-92 (x-3 5/8)	x-86 (x-3 1/2)	x-73 (x-2 7/8)	x-59 (x-2 3/8)	x-45 (x-1 13/16)	x-31 (x-1 1/4)	x-17 (x-11/16)	x-4 (x-5/32)

unit = mm (inches)

250	300	350	400	450	500
37250 (1466 3/4)	44660 (1758 1/2)	52080 (2050 3/4)	59500 (2342 7/8)	66910 (2634 5/8)	74330 (2926 3/4)
1905 (75 1/8)	2286 (90 1/8)	2667 (105 1/8)	3048 (120 1/16)	3429 (135 1/8)	3810 (150 1/8)
c+1935 (c+76 1/4)	c+2293 (c+90 3/8)	c+2652 (c+104 1/2)	c+3010 (c+118 5/32)	c+3368 (c+132 5/8)	c+3726 (c+146 3/4)

VPLL-2014*

unit = mm (inches)

Screen Size (inches)		40	80	100	120	150	180	200	250	300	350	400	450	500
a		1030 (40 5/8)	2180 (85 7/8)	2760 (108 3/4)	3330 (131 1/8)	4200 (165 3/8)	5060 (199 1/4)	5640 (222 1/8)	7080 (278 7/8)	8520 (335 1/2)	9960 (392 1/4)	11400 (448 7/8)	12840 (505 5/8)	14280 (562 3/8)
b	min							c+130.6 (c+5 1/4)						
	max							c+139.6 (c+5 1/2)						
e		305 (12 1/8)	610 (24 1/8)	762 (30)	914 (36)	1143 -45	1372 (54 1/8)	1524 (60)	1905 (75 1/8)	2286 (90 1/8)	2667 (105 1/8)	3048 (120 1/16)	3429 (135 1/8)	3810 (150 1/8)
x	min							c+130.6 (c+5 1/4)						
	max	c+338 (c+13 3/8)	c+536 (c+21 1/8)	c+636 (c+25 1/8)	c+735 (c+29)	c+884 (c+34 7/8)	c+1033 (c+40 3/4)	c+1132 (c+44 5/8)	c+1380 (c+54 3/8)	c+1628 (c+64 1/8)	c+1876 (c+73 7/8)	c+2124 (c+83 3/4)	c+2372 (c+93 1/2)	c+2620 (c+103 1/4)

fV (kHz)	H/V Polarity	Size
59.940	–	–
50.000	–	–
59.940	S on G	–
50.000	S on G	–
60.000	S on Y/G	1235
70.086	P/N	800
85.080	P/N	832
56.416	N/N	848
70.086	N/P	800
85.080	N/P	832
59.940	N/N	800
66.667	S on G	864
72.809	N/N	832
75.000	N/N	840
85.008	N/N	832
56.250	P/P	1024
60.317	P/P	1056
72.188	P/P	1040
75.000	P/P	1056
85.061	P/P	1048

Memory No.	Preset Signal		fH (kHz)	fV (kHz)	H/V Polarity	Size
21	832x624	Mac 16	49.724	74.550	N/N	1152
22	1024x768	VESA 43(8514)	35.524	86.958	P/P	1264
23		VESA 60	48.363	60.004	N/N	1344
24		VESA 70	56.476	69.955	N/N	1328
25		VESA 75	60.023	75.029	P/P	1312
26		VESA 85	68.677	84.997	P/P	1376
27	1152x864	VESA 70	63.995	70.019	P/P	1308
28		VESA 75	67.500	75.000	P/P	1422
29		VESA 85	77.487	85.057	P/P	1394
30	1152x900	SUN LO	61.795	65.960	N/N	1283
31		SUN HI	71.713	76.047	N/N	1256
32	1280x960	VESA 60	60.000	60.000	P/P	1440
33		VESA 75	75.000	75.000	P/P	1382
34	1280x1024	VESA 43	46.433	43.436	P/P	1272
35		SGI-5	53.316	50.062	N/N	1260
36		VESA 60	63.974	60.013	P/P	1272
37		SXGA VESA75	79.976	75.025	P/P	1266
38		SXGA VESA85	91.146	85.024	P/P	1296
39	1600x1200	UXGA VESA60	75.000	60.000	P/P	1352

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 (viewable area, measured diagonally)

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

Color system:	NTSC/PAL/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:	VPL-X2000U: AC 100 to 240 V, 50/60 Hz (UL approved for AC 120 V operation) VPL-X2000M: AC 220 to 240 V, 50/60 Hz
Power consumption:	VPL-X2000U: 770 W (Max.), 15 W (Standby) VPL-X2000M: 770 W (Max.), 20 W (Standby)
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)
Weight:	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:	Loop-through Mini DIN 4-pin
Y(luminance):	1.0 Vp-p ± 2 dB sync negative, 75 Ω
C(chrominance):	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	
Analog 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*2 (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*2 (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*3:	D-sub 9-pin (female)
PJ COM*4:	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-X2000U: UL 1950, cUL 950, FCC Class A, IC Class A VPL-X2000M: 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-Q2000 Projector individual lamp LMP-S2000 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/20/21/30/1000/50 Signal interface cable SIC-20A/20B/20C/21/22 Signal interface switcher PC-3000 9-pin remote cable RCC-5G/10G/30G (for RS-422A) Remote commander RM-PJ3000S*5 Remote control receiver RM-PJ10 100-inch flat screen VPS-100FH 120-inch flat screen VPS-120FH

*1 ANSI lumen is a measuring method of the American National Standards Institute ANSI IT7.228.
*2 The VPL-X2000 supports 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.
*3 RS-232C/RS-422A selectable.
*4 PJ COM complies with RS-485.
*5 Laser Type: Class II
Wavelength: 645 nm
Output: 1 mW