# SONY®

LCD Data Projector

VPL-V800Q/V800QM

The LCD Data
Higher Brillian

The VPL-V800Q/V800QM is a brilliant presentation tool combining high brightness and system flexibility.

Incorporating advanced optical technologies, the VPL-V800Q/V800QM LCD Data Projector achieves the astonishing brightness of 800 ANSI lumen - text, graphics and diagrams are clearly visible even under critical room lighting levels.

The VPL-V800Q/V800QM not only accepts video signals, but also has a built-in high performance scan converter to reproduce computer signals
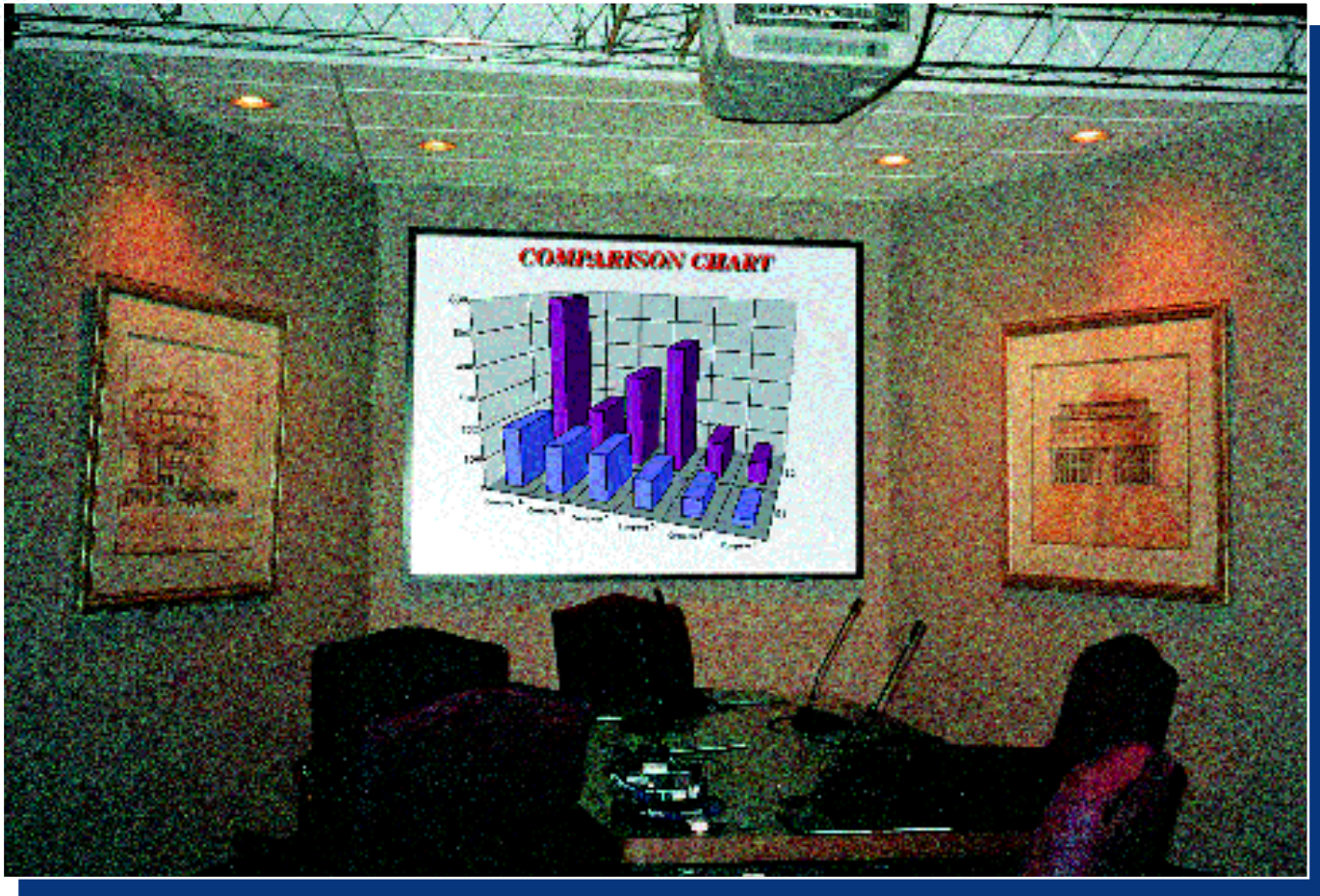
Projector With
ce And Greater Versatility

with a horizontal frequency of up to 65kHz. To enhance the flexibility of the projection system, optional accessories including interface boards, a signal interface switcher and interface cables are available. Combining these accessories allows the VPL-V800Q/V800QM to be simultaneously connected to various signal sources.

For a wide variety of applications, the Sony VPL-V800Q/V800QM is one of the brightness and most versatile performers at events, business, education and rental scenes.
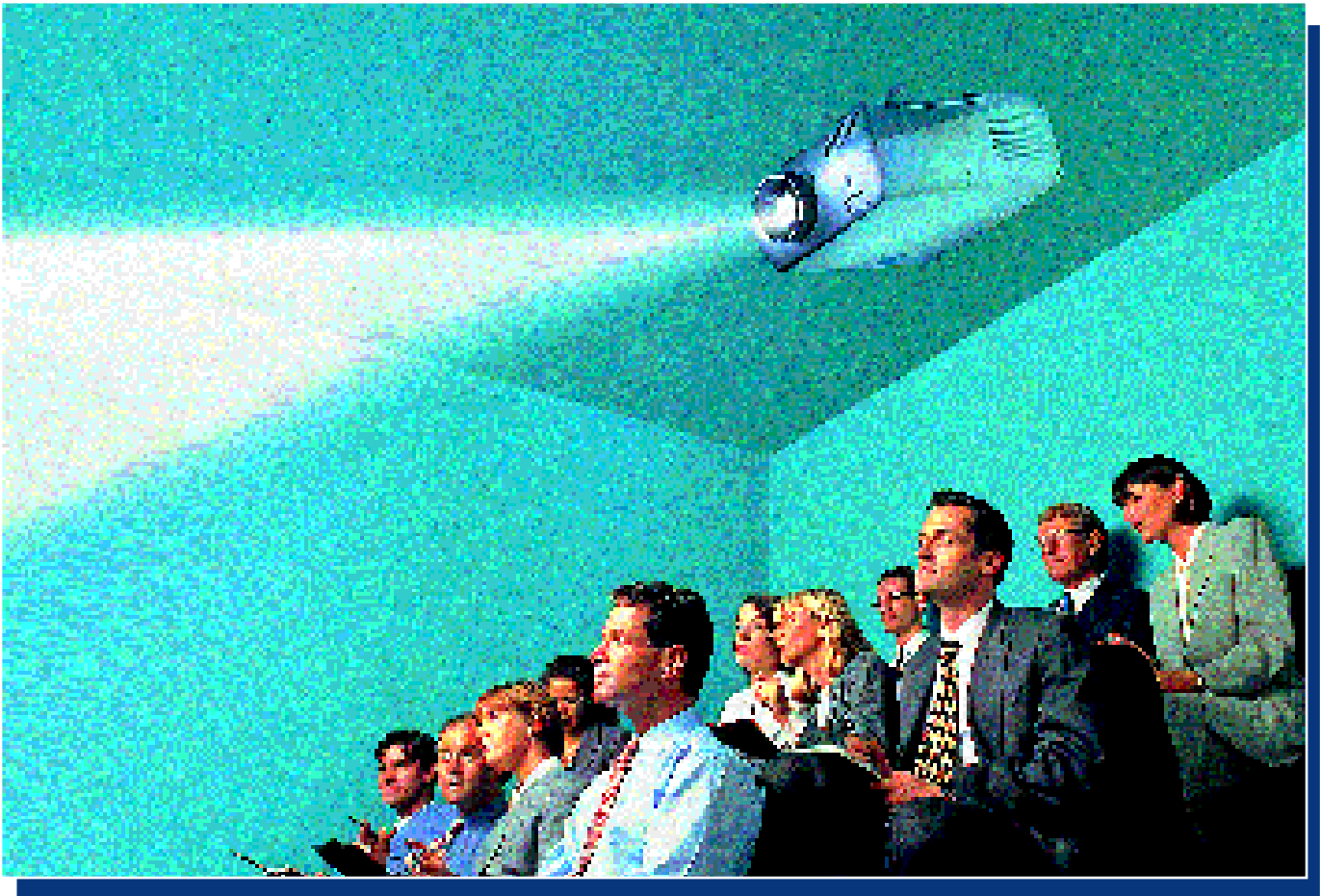
Superior Picture Performance
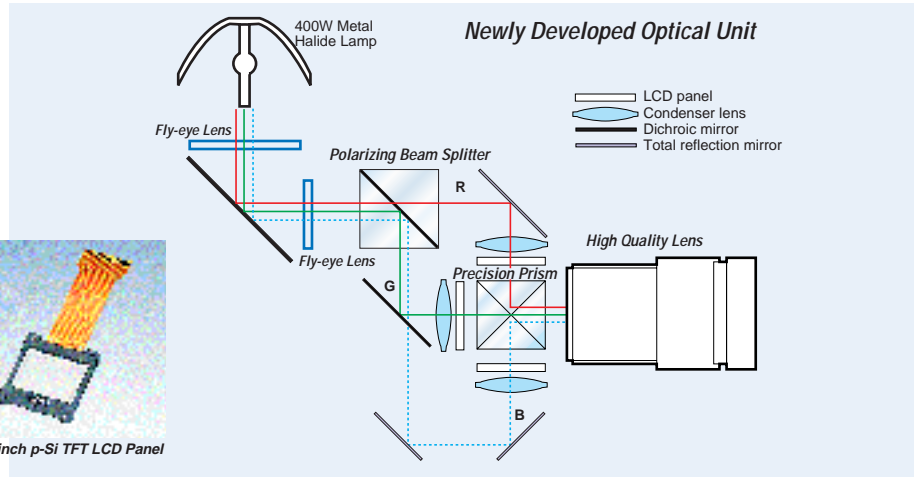
High brightness

Bright images are attained with the combination of a newly developed optical unit and a 400W DC drive metal halide lamp. Ensuring a high light output of 800 ANSI lumen, the projector allows images to be displayed effectively even in meeting rooms or training rooms without turning the lights off.

Newly Developed Optical Unit

400W Metal Halide Lamp

Fly-eye Lens

Polarizing Beam Splitter

□ LCD panel
◁▷ Condenser lens
━ Dichroic mirror
▭ Total reflection mirror

R

Fly-eye Lens

High Quality Lens

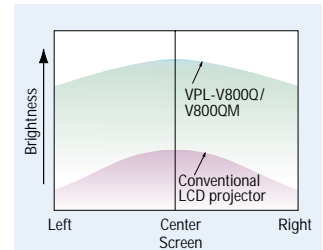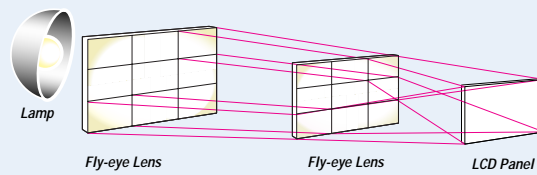Precision Prism

G

B

400W Metal Halide Lamp

1.3-inch p-Si TFT LCD Panel

Excellent uniformity

With an innovative optical system featuring light integrators, precision prism and high quality lens, the VPL-V800Q/V800QM projector creates an image - of uniform color and brightness from corner to corner on the screen.

Light Integrators System

Lamp

Fly-eye Lens

Fly-eye Lens

LCD Panel

Brightness

VPL-V800Q/ V800QM

Conventional LCD projector

Left — Center Screen — Right

Multiscan Capability

Signals with a horizontal frequency of 15 to 65kHz and a vertical frequency of 38 to 120Hz can be reproduced with the built-in high performance scan converter, which automatically converts input signals to 640 x 480 pixels. Various video signals such as composite video, Y/C, component (Y/R-Y/B-Y) and RGB can also be reproduced.
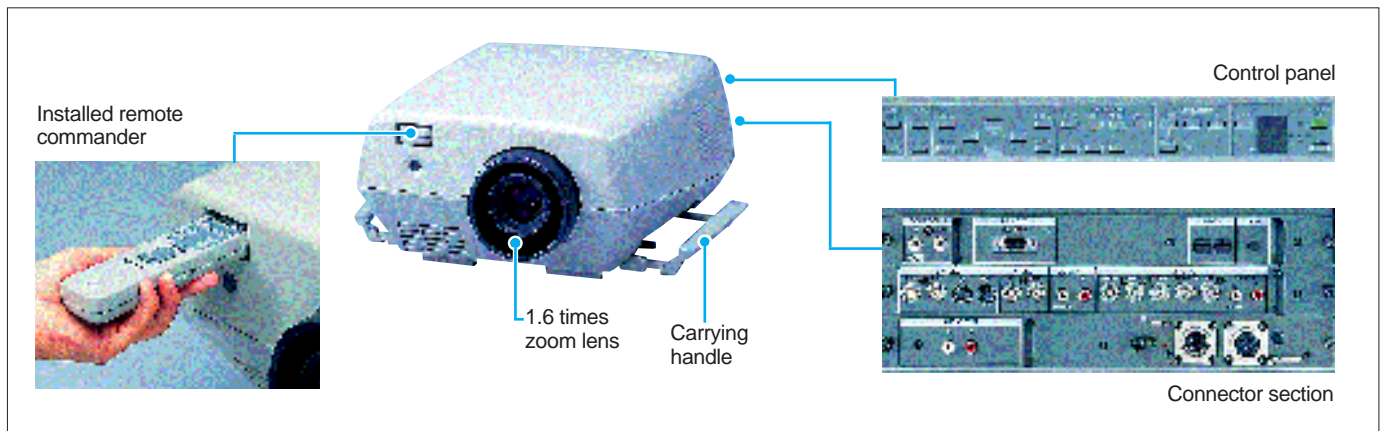
System Versatility

The VPL-V800Q/V800QM has a slot for an optional IFB Interface Board. Installation of this board allows the projector system to be expanded by connecting a PC-1271/1271M Signal Interface Switcher using SIC Signal Interface Cables. With these options, several sources can be connected simultaneously.

Installed remote commander

Control panel

1.6 times zoom lens

Carrying handle

Connector section

Installation Flexibility

The VPL-V800Q/V800QM can be desk top mounted, ceiling mounted and used for rear projection. For greater installation flexibility, the picture shift function of the VPL-V800Q/V800QM projection system enables the image to be shifted up and down without keystone distortion. A 1.6 times power zoom and power focus functions also permit both picture size and lens focus to be changed easily to match on-site installation conditions. The VPL-V800Q/V800QM can reproduce images on screen sizes ranging from 40 to 300-inches.

Picture can be shifted within this range.
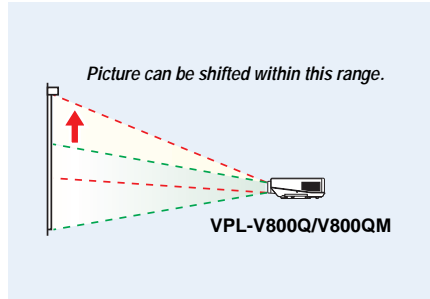
VPL-V800Q/V800QM

Twin stacking capability

The VPL-V800Q/V800QM can be twin stacked*. In this installation, the brightness is doubled. When two projectors are stacked, the picture shift function helps match the two pictures.

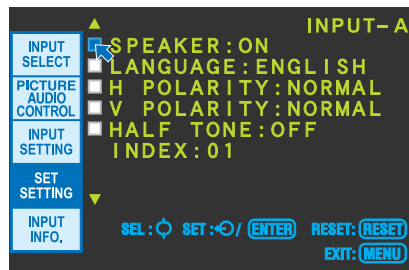* Images are reproduced on screen sizes ranging from 60 to 240-inches.

Easy Operation

Memory function

The VPL-V800Q/V800QM is simple to operate. There are no complicated adjustments to perform-just connect the image source, and the VPL-V800Q/V800QM will automatically recognize the input signal and select the appropriate display mode from preset parameters. This memory function allows the projection system to be set up and aligned quickly and easily.

On-screen display

Operational functions and adjustment status are displayed on-screen. The menu can be selected from one of seven languages: English, French, German, Italian, Spanish, Japanese and Chinese.

```
                                    INPUT-A
INPUT      SPEAKER:ON
SELECT     LANGUAGE:ENGLISH
PICTURE    H POLARITY:NORMAL
AUDIO      V POLARITY:NORMAL
CONTROL    HALF TONE:OFF
INPUT      INDEX:01
SETTING
SET
SETTING
INPUT      SEL:◇ SET:◁▷/(ENTER)  RESET:(RESET)
INFO.                            EXIT:(MENU)
```

Remote control capability

The wired/wireless remote commander RM-PJM800 controls all projector adjustments and operations. By connecting the optional remote control receiver RM-PJ10 to the projector, the operational range of the remote commander can be extended. Furthermore, when the optional mouse receiver RM-PJ21 is connected to a computer, the RM-PJM800 can also remotely operate the connected computer.
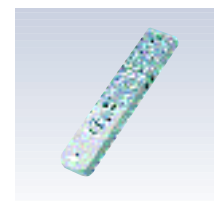
RM-PJM800

RM-PJ10

Others

Power saving function

The VPL-V800Q/V800QM incorporates a power saving function. When the power saving mode is set to ON, and the projector has not received any input or sync signal for over 10 minutes, the projector automatically reduces its power consumption. The projector automatically returns to its normal operation mode when recognizing any signal or command from the control panel or remote commander.
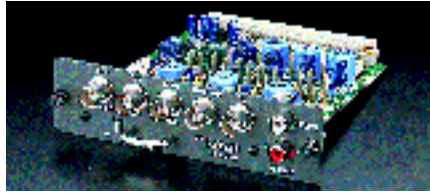
TRIG terminal

The VPL-V800Q/V800QM has a TRIG terminal to control an integrated projection room, including screens, curtains and lighting.
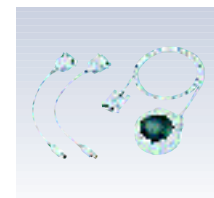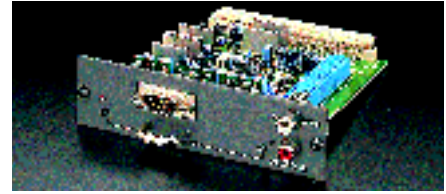
RM-PJ21

Interface boards
IFB Series

5 BNC input/output
IFB-12
• Accepts analog RGB, component (Y/R-Y/B-Y), HDTV (Y/P$_B$/P$_R$), HDTV (GBR), composite video and S video signals
• RGB bandwidth of 300MHz
• Cable compensation function for output signals (150MHz)

Analog RGB input (D-sub 9-pin)
IFB-20
• RGB bandwidth of 120MHz

Analog RGB input/output (HD D-sub 15-pin)
IFB-21
• RGB bandwidth of 150MHz
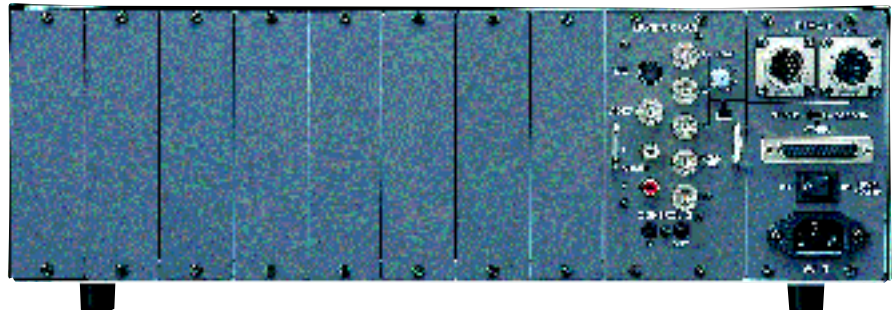

Digital RGB input (D-sub 9-pin)
IFB-30
• RGB bandwidth of 30MHz
• Monochrome/8 color/16 color/64 color mode switchable

Composite/Y/C video input
(Loop-through BNC/Loop-through Mini DIN 4-pin)
IFB-1000

Signal interface switcher
PC-1271/1271M

• Provides eight slots for optional interface boards. By using two PC-1271/1271M switchers, a maximum of 16 inputs can be connected simultaneously.
• Remote control capability with the RM-PJM800 and RM-1270S[*1]. The switcher can also be controlled with a custom-made remote control unit via the REMOTE 2 (D-sub 25-pin).
• Switcher can be connected to the projector

by connecting a CCQ-BRS or SIC-M multi-cable[*2] (50m) via the REMOTE 1. Incorporates a cable length compensation switch to maintain the RGB bandwidth of 70MHz when using the multi-cable. A 150MHz RGB bandwidth is guaranteed for Monitor OUT.
• When one of the input selection switchers is selected, the front panel of the chosen interface board automatically illuminates.

• When power is turned on, the PC-1271/1271M reconnects the channel used immediately before the power was turned off.
• Mountable in an EIA 19-inch rack with the supplied rack mount kit.

[*1] The RM-PJM800 is supplied with the VPL-V800Q/V800QM. The RM-1270S is supplied with the PC-1271/1271M.
[*2] These cables are not available in some areas. For details, please consult your nearest Sony office.

Interface unit
IFU-1271/1271M

• Distributes an input signal from the IFB board into two outputs with 120MHz bandwidth.
• The IFU-1271/1271M converts signals from digital signal level to analog signal level (TTL to 0.7Vp-p) for output.

Signal interface cable
SIC Series

SIC-10
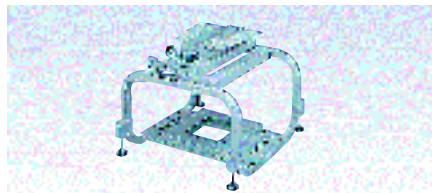- BNC x 5 ———————— BNC x 5
  (R,G,B,HD,VD)   (R,G,B,HD,VD)
- Length: 10m (32.8ft)

SIC-20A/20B/20C
- Analog RGB
- D-sub 9-pin ——————— D-sub 15-pin (female)
  (female)   D-sub 15-pin (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

SIC-21
- Analog RGB
- D-sub 9-pin ——————— D-sub 9-pin (female)
  (female)   D-sub 9-pin (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

SIC-22
- Analog RGB with digital sync
- D-sub 9-pin ——————— D-sub 15-pin High Density (female)
  (female)   D-sub 15-pin High Density (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

SIC-30
- Analog RGB input
- D-sub 9-pin ——————— D-sub 9-pin (female)
  (female)   D-sub 9-pin (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

Projection lens
VPLL-FM100
- f130mm/F3.0
- Screen coverage: 40 to 300-inch
- Throwing distance: 100-inch: 10000mm
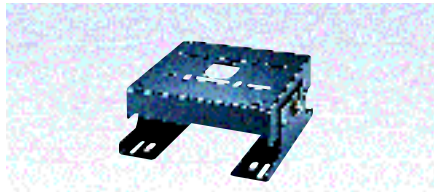   200-inch: 20000mm

Projector stand (for twin stacking)
SU-PJ800

Suspension support
PSS-800

Suspension support
PSS-10

100-inch flat screen
VPS-100FH

120-inch flat screen
VPS-120FH

Installation Examples

Floor Installation
Unit: mm (inches)

Wall — Center of the screen — Center of the lens — Floor

a: Distance between the screen and the center of the lens
b: Distance from the floor to the center of the lens
c: Distance from the floor to the foot of the projector
x: free

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1490 (58 3/4)	2290 (90 1/4)	3090 (121 3/4)	3880 (152 7/8)	4680 (184 3/4)	5870 (231 1/8)	7070 (278 1/8)	7860 (309 3/8)	9860 (388 1/4)	11850 (466 5/8)
	Maximum	2290 (90 1/4)	3500 (137 7/8)	4710 (185 1/2)	5910 (232 3/4)	7120 (280 3/8)	8920 (351 1/8)	10730 (422 1/8)	11940 (470 1/8)	14950 (588 5/8)	17960 (707 1/8)
b	Minimum	x-338 (13 3/8)	x-508 (20)	x-677 (26 3/4)	x-846 (33 3/8)	x-1015 (40)	x-1269 (50)	x-1523 (60)	x-1692 (66 5/8)	x-2115 (83 3/8)	x-2538 (100)
	Maximum	x	x	x	x	x	x	x	x	x	x
c	Minimum	x-480 (19)	x-649 (25 5/8)	x-818 (32 1/4)	x-988 (39)	x-1157 (45 5/8)	x-1411 (55 5/8)	x-1665 (65 5/8)	x-1834 (72 1/4)	x-2257 (88 7/8)	x-2680 (105 5/8)
	Maximum	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)	x-131 (5 1/4)

When two projectors are stacked*

Screen size (inches)	60	80	100	120	150	180	200	240
a	3000 (118 1/8)	4000 (157 1/2)	5000 (196 7/8)	6000 (236 1/4)	7500 (295 3/8)	9000 (354 3/8)	10000 (393 3/4)	12000 (472 1/2)

*As for "b" and "c" measurements, please refer to "b" and "c" of the above chart.

Ceiling Installation
Unit: mm (inches)

Optional Suspension Support PSS-800 — Ceiling — Center of the screen — Center of the lens — Wall

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 bottom of the projector
e: Distance between the top and the center of the screen
x: Distance between the ceiling and the center of the screen

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3090 (121 3/4)	3880 (152 7/8)	4680 (184 3/8)	5870 (231 1/8)	7070 (278 3/8)	7860 (309 1/2)	9860 (388 1/4)	11850 (466 5/8)
	Maximum	4710 (185 1/2)	5910 (232 3/4)	7120 (280 3/8)	8920 (351 1/8)	10730 (422 1/8)	11940 (470 1/8)	14950 (588 5/8)	17960 (707 1/8)
b	Minimum	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)
	Maximum	c+140 (5 5/8)	c+140 (5 5/8)	c+140 (5 5/8)	c+140 (5 5/8)	c+140 (5 5/8)	c+140 (5 5/8)	c+140 (5 5/8)	c+140 (5 5/8)
e		610 (24)	762 (30)	914 (36)	1143 (45)	1372 (54)	1524 (60)	1905 (75)	2286 (90)
x	Minimum	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)	c+129 (5 1/8)
	Maximum	c+817 (32 1/4)	c+986 (38 3/4)	c+1155 (45 1/2)	c+1409 (55 1/2)	c+1663 (65 1/2)	c+1832 (72 1/4)	c+2255 (88 7/8)	c+2678 (105 1/2)

When two projectors are stacked*

Screen size (inches)	80	100	120	150	180	200	240
a	4000 (157 1/2)	5000 (196 7/8)	6000 (236 1/4)	7500 (295 3/8)	9000 (354 3/8)	10000 (393 3/4)	12000 (472 1/2)

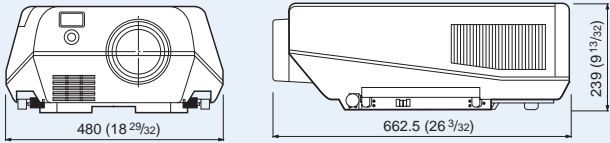*As for "b" and "c" measurements, please refer to "b" and "c" of the above chart.
c: 150(6), Minimum of x: e (When using the optional suspension support PSS-800)

Specifications

Optical

Projection system:	3 LCD panels, 1 lens projection
LCD panel:	1.3-inch p-Si TFT LCD panel, 921,600pixels (307,200pixels x 3 panels)
Projection lens:	1.6 times power zoom lens with power focus and picture shift f50 to 80mm/F2.5 to 3.1
Lamp:	400W metal halide lamp
Screen coverage:	40 to 300-inch
Light output:	ANSI *1: 800lm
Throwing distance:	40-inch: 1490 to 2290mm (58 3/4 to 90 1/4inches) 80-inch: 3090 to 4710mm (121 3/4 to 185 1/2inches) 100-inch: 3880 to 5910mm (152 7/8 to 232 3/4inches) 120-inch: 4680 to 7120mm (184 3/8 to 280 3/8inches) 200-inch: 7860 to 11940mm (309 1/2 to 470 1/8 inches) 300-inch:11820 to 17960mm (465 3/8 to 707 1/8 inches)

General

Color system:	NTSC/PAL/SECAM/NTSC4.43/PAL-M automatically selected
Resolution:	Video: 500TV lines RGB: 640 X 480 pixels
Scanning frequency:	Horizontal:15 to 65kHz Vertical: 38 to 120Hz
Speakers:	Max. 3W, 9 x 5cm monoural
Power requirements:	VPL-V800Q: AC 100 to 120V/220 to 240V*2, 50/60Hz VPL-V800QM: AC 220 to 240V, 50/60Hz
Power consumption:	Max.: 570W, Stand by: 15W
Heat dissipation:	1945BTU
Dimensions:	

480 (18 29/32)   662.5 (26 3/32)   239 (9 13/32)

Unit: mm (inch)

Mass:	Approx. 25kg (55 lb 2 oz)
Operating temperature:	0 to 40˚C (32 to 104˚F)
Operating humidity:	35 to 85%
Storage temperature:	-20 to 60˚C (-4 to 140˚F)
Storage humidity:	10 to 90%

Inputs/Outputs

VIDEO:		
	Composite video	Loop-through BNC 1Vp-p±2dB sync negative, 75Ω
	S VIDEO:	
	Y IN:	BNC 1Vp-p±2dB sync negative, 75Ω
	C IN:	BNC Burst 0.286Vp-p ±2dB (NTSC), 75Ω 0.3Vp-p±2dB (PAL), 75Ω
	Y/C IN:	Loop-through Mini DIN 4-pin
	Y (luminance):	1Vp-p±2dB sync negative, 75Ω
	C (chrominance):	Burst 0.286Vp-p ±2dB (NTSC), 75Ω 0.3Vp-p±2dB (PAL), 75Ω
	Audio IN:	Phono (x2) 500mVrms, stereo, impedance more than 47kΩ (Stereo or monaural selectable)

INPUT A :		
	Analog RGB/Component:	BNC x 5
	R/R-Y:	0.7Vp-p±2dB positive, 75Ω
	G:	0.7Vp-p±2dB positive, 75Ω
	G with sync/Y:	1Vp-p±2dB sync negative, 75Ω
	B/B-Y:	0.7Vp-p±2dB positive, 75Ω
	Sync/HD:	
	Composite sync:	0.6 to 8Vp-p, high impedance, sync positive/negative
	Horizontal sync:	0.6 to 8Vp-p, high impedance, sync positive/negative
	VD:	
	Vertical sync:	0.6 to 8Vp-p, high impedance, sync positive/negative
	Audio IN:	Phono (x2) 500mVrms, stereo, impedance more than 47kΩ (stereo or monaural selectable)
INPUT B :		
	Supplied with an IFB-40:	14-pin multi connector (Input: male, Output: female)
AUDIO OUT: (Variable out)		Phono (x2) Max. 1Vrms, stereo, when input is 500mVrms, impedance less than 5kΩ
CONTROL S:		
	IN PLUG IN POWER:	Stereo mini jack 5Vp-p, Plug in power DC 5V maximum output 60mA
	OUT:	Stereo mini jack 5Vp-p
REMOTE:		
	RS-422A:	D-sub 9-pin (female)
TRIG:		Mini jack Power ON: DC 5V output impedance 4.7kΩ Power OFF: 0V

Safety regulations

	VPL-V800Q: UL1950, CSA950, FCC, IC VPL-V800QM: EN60 950 (TÜV), CE, C-Tick

Accessories

Supplied accessories:	Remote commander RM-PJM800 Remote commander cable (15m) Size AA (R6) battery (x2) AC power cord Operating instructions Installation manual
Optional accessories:	Projection lamp (for replacement) PK-PJ800*3 Interface board IFB-12/20/21/30/40/1000 Signal interface switcher PC-1271/1271M Interface unit IFU-1271/1271M Signal interface cable SIC-10/20A/20B/20C/21/22/30 Multi cable*3 CCQ-BRS cable (14/14pin, 2/5/10/25/50m) SIC-M cable (14/14pin, 1/5/15/25/50m) Monitor cable SMF-400 (HD D-sub 15-pin to 5 BNC) Monitor cable SMF-401 (HD D-sub 15-pin to HD D-sub 15-pin) Signal adapter ADP-10 (HD D-sub 15-pin to D-sub 9-pin for SIC Cable) Signal adapter ADP-20 (MacintosH®, to VGA)*4 Remote commander RM-PJ1000 Mouse receiver RM-PJ21 Remote control receiver RM-PJ10 Projection lens VPLL-FM30 Projection lens VPLL-FM100 Projection lens VPLL-ZP100 Projector stand SU-PJ800 (for twin stacking) Suspension support PSS-800 Suspension support PSS-10 100-inch flat screen VPS-100FH*3 120-inch flat screen VPS-120FH*3

*1 ANSI is a measuring method of American National Standard ANSI IT7228
*2 UL listed for 120V operation.
*3 Some items are not available in some areas. For details, please consult your nearest Sony office.
*4 VGA is a registered trademark of International Business Machines Corporation.
  Macintosh is a trademark of Apple Computer Inc.

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