





UPL-CS1

SUPERLITE™ ULTRA-PORTABLE LCD DATA PROJECTOR



## Ultra-compact and extremely lightweight

Thanks to newly developed 0.7-inch LCD panels and a unique design, the VPL-CS1 is ultra-compact and weighs only. 2.9 kg (6.4 lbs.). The projector also comes with a carrying case, easy-to-grip handle and detachable strap that allow you to take it anywhere.



## 600 ANSI lumens brightness

Despite its compact dimensions, the VPL-CS1 incorporates advanced Sony technologies that provide an impressive 600 ANSI lumens of brightness. A new 120 W UHP lamp and bright lens, together with Sony's unique 0.7-inch LCD panels and optical unit produce industry-leading lev-



els of image clarity.

### Quiet operation

Thanks to its new cooling structure, the VPL-CS1 operates with an extremely low noise level. The use of sapphire glass on the polarizer dramatically reduces heat buildup, making only two internal fans necessary.



# Exquisite form, handy function

The sleek front hood not only protects the lens from damage but also serves as the projector's front stand when flipped open. The rear stand extends simultaneously when the front hood is opened.



### Computer friendly

With a hot plug-and-play USB hub and Sony "PROJECTOR STATION" software\*, the VPL-CS1 is fully controllable from a computer. Presentation files registered in the software can be opened by pressing the function keys on the supplied RM-PJM1 remote control unit.

\*PROJECTOR STATION software requirements: Microsoft® Windows® 98 operating system.





PROJECTOR STATION SOFTWARE





# Introducing Sony's Perfect

**The Take It Anywhere, Do It All Projector** It's a So. ultra-compact, extremely portable, and packed with Keep in step with the latest from Sony and you





# Package of Performance.

ny. And that's why the VPL-CS1 LCD Data Projector is advanced technologies for impressive image clarity. In presentations will never be the same again.



### Multiscan converter

The VPL-CS1 accepts a wide variety of input signals, with 37 preset signal formats covering any video format used worldwide, and PC signals up to SXGA. Just plug in your computer with the supplied cable and you get a great picture with no need for complex adjustments.

# Various inputs

The VPL-CS1 accepts various input signals: Composite video, S video, Y/Cb/Cr and RGB.



#### Connector

### **Advanced APA**

The new APA (Auto Pixel Alignment) algorithm covers not only dot phase but also size and shift adjustments.

Just press the APA button to automatically adjust dot phase and image size or shift to their optimal settings.



Control panel

# Digital keystone adjustment

Keystone distortion can be electronically corrected with this function. The adjustable range of 20 degrees can be controlled via the on-screen display menu. The correction data is stored in the unit when the KEYSTONE MEMORY menu is set to the "ON" position.

# 🗼 Impressive stereo sound

For excellent audio performance, the compact VPL-CS1 comes fully equipped with stereo speakers.

# User-friendly menus

On-screen menus guide you every step of the way in projector control – in seven languages of your choice: English, French, Spanish, German, Italian, Japanese or Chinese.

# Digital zoom function

The 4-times digital zoom function can be easily controlled from the optional RM-PJ610 remote control unit.

_	ions			
Model		VPL-CS1		
Optical	Projection system	3 SVGA LCD panels, 1 lens projection system		
•	LCD panels	0.7-inch p-Si TFT SVGA LCD panels,		
	-	1,440,000 (480,000 x 3) pixels		
	Lamp	120 W UHP		
	Projection lens	1.3 times zoom lens, F 1.7 to 2.1, f 28.74 to 37.36 mm		
	Screen coverage	40 to 150 inches (viewable area, measured diagonally)		
	Light output	600 ANSI lumens <sup>*1</sup>		
	Throwing distance			
	40-inch	1580 to 2010 mm (62 <sup>1</sup> / <sub>4</sub> to 78 <sup>25</sup> / <sub>32</sub> inches)		
	60-inch	2390 to 3060 mm (94 <sup>1</sup> / <sub>8</sub> to 120 <sup>1</sup> / <sub>2</sub> inches)		
	80-inch	3210 to 4100 mm (126 <sup>1</sup> / <sub>2</sub> to 161 <sup>1</sup> / <sub>2</sub> inches)		
	100-inch	4030 to 5150 mm (158 11/16 to 202 7/8 inches)		
	120-inch	4850 to 6200 mm (191 to 244 <sup>1</sup> / <sub>8</sub> inches)		
	150-inch	6080 to 7780 mm (239 <sup>1</sup> / <sub>2</sub> to 306 <sup>3</sup> / <sub>8</sub> inches)		
Signals	Color system	NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL-N		
		(automatically/manually selected)		
	Resolution	600 TV lines (video), 800 x 600 pixels (RGB)		
	Acceptable signals	RGB (fH: 15 to 91 kHz, fV: 43 to 85 Hz),		
		15 kHz component 50/60 Hz system, composite video, Y/C video		
General	Speakers	Max. 0.5 W x 2 (stereo)		
	Power requirements	AC 100 to 240 V, 50/60 Hz		
	Power consumption	Max. 190 W, standby 4.2 W		
	Operating temperature	0 to 35 °C (32 to 95 °F)		
	Operating humidity	35 to 85%		
	Dimensions	277 (W) x 70 (H) x 214 (D) mm (11 x 2 <sup>7</sup> /8 x 8 <sup>1</sup> /2 inches)		
	Mass	Approx. 2.9 kg (6 lb 6 oz)		
	Heat dissipation	648.4 BTU		
Inputs/Outputs	VIDEO			
	Composite Phono type, 1.0 Vp-p ±2 dB, sync negative, 75 \( \Omega \)			
	VIDEO			
	Y/C IN	Mini DIN 4-pin		
	Y	1 Vp-p ±2 dB, sync negative, 75 Ω		
	С	Burst 0.286 Vp-p $\pm 2$ dB (NTSC), 75 $\Omega$		
		or 0.3 Vp-p $\pm 2$ dB (PAL), 75 $\Omega$		
	INPUT A	* * * * * * * * * * * * * * * * * * * *		
	Analog RGB/Component	HD D-sub 15-pin (female)		
	R/R-Y	$0.7 \text{ Vp-p} \pm 2 \text{ dB}$ , positive, $75 \Omega$		
	G	$0.7 \text{ Vp-p} \pm 2 \text{ dB}$ , positive, $75 \Omega$		
	G with Sync/Y	1.0 Vp-p $\pm 2$ dB, sync negative, 75 $\Omega$		
	B/B-Y	0.7 Vp-p $\pm 2$ dB, positive, 75 $\Omega$		
	SYNC/HD			
	Composite sync	1 to 5 Vp-p, high impedance positive/negative		
	Horizontal sync	1 to 5 Vp-p, high impedance positive/negative		
	VD			
	Vertical sync	1 to 5 Vp-p, high impedance positive/negative		
	MOUSE IN	6-pin (female)		
	USB HUB	UP (B type female) x 1, Down (A type female) x 1		
	AUDIO IN	Stereo mini jack, 500 mV rms, impedance more than 47 k $\Omega$		
Safety regulations		UL1950, UL950 (CSA No.950) Listed FCC Class B,		
		EN 60 950 (NEMCO), CE, C-Tick, CCIB, VCCI Class B		
Supplied accessor	ries	Remote control unit RM-PJM1, Monitor cable SMF-410 (2 m):		
		HD D-sub 15-pin to HD D-sub 15-pin, PS/2 Mouse cable (2 m		
		USB cable A type to B type, USB application software		
		"PROJECTOR STATION", Carrying bag, AAA size battery (x 2		
		Air filter, Operating manual, Quick reference sheet		

<sup>&</sup>lt;sup>\*1</sup> ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

### Preset Data of Input Signals

1         Video 60 Hz         15.734         59.940         N/N           2         Video 50 Hz         15.625         50.000         N/N           3         15 K RGB/Component 60 Hz         15.734         59.940         S on G           4         15 K RGB/Component 50 Hz         15.625         50.000         S on G           5         ————————————————————————————————————	Memory	Preset Signal		fH (kHz)	fV (Hz)	H/V Polarity
2		-		` ′	` ′	
3						
4 15 K RGB/Component 50 Hz						
5         —         —         —         —           6         640 x 350         VGA mode 1         31.469         70.086         P/N           7         VGA VESA 85 Hz         37.861         85.080         P/N           8         640 x 400         PC-9801 Normal         24.823         56.416         N/N           9         VGA WESA 85 Hz         37.861         85.080         N/P           10         VGA WESA 85 Hz         37.861         85.080         N/P           11         640 x 480         VGA mode 3         31.469         59.940         N/N           12         Macintosh 13"         35.000         66.667         S on G           13         VGA VESA 72 Hz         37.801         72.809         N/N           14         VGA VESA 75 Hz         37.500         75.000         N/N           15         VGA VESA 85 Hz         35.156         56.250         P/P           16         800 x 600         SVGA VESA 60 Hz         37.879         60.317         P/P           17         SVGA VESA 75 Hz         48.077         72.188         P/P           19         SVGA VESA 75 Hz         48.077         72.188         P/P						
6         640 x 350         VGA mode 1         31.469         70.086         P/N           7         VGA VESA 85 Hz         37.861         85.080         P/N           8         640 x 400         PC-9801 Normal         24.823         56.416         N/N           9         VGA websa         231.469         70.086         N/P           10         VGA WESA 85 Hz         37.861         85.080         N/P           11         640 x 480         VGA mode 3         31.469         59.940         N/N           12         Macintosh 13"         35.000         66.667         Son G           VGA VESA 72 Hz         37.861         72.809         N/N           14         VGA VESA 75 Hz         37.500         75.000         N/N           15         VGA VESA 85 Hz         37.876         85.008         N/N           16         800 x 600         SVGA VESA 60 Hz         37.879         60.317         P/P           17         SVGA VESA 75 Hz         48.077         72.188         P/P           19         SVGA VESA 75 Hz         48.77         72.188         P/P           20         SVGA VESA 85 Hz         53.674         85.061         P/P		15 K RGB/Component 50 Hz		15.625	50.000	S on G
7         VGA VESA 85 Hz         37.861         85.080         P/N           8         640 x 400         PC-9801 Normal         24.823         56.416         N/N           9         VGA mode 2         31.469         70.086         N/P           10         VGA WESA 85 Hz         37.861         85.080         N/P           11         640 x 480         VGA mode 3         31.469         59.940         N/N           12         Macintosh 13"         35.000         66.667         S on G           13         VGA VESA 72 Hz         37.861         72.809         N/N           14         VGA VESA 75 Hz         37.500         75.000         N/N           15         VGA VESA 85 Hz         33.156         56.250         P/P           16         800 x 600         SVGA VESA 60 Hz         37.879         60.317         P/P           17         SVGA VESA 60 Hz         37.879         60.317         P/P           19         SVGA VESA 75 Hz         48.077         72.188         P/P           20         SVGA VESA 85 Hz         53.674         85.061         P/P           21         832 x 624         Macintosh 16"         49.724         74.550         N				_		
8         640 x 400         PC-9801 Normal VGA mode 2         24.823         56.416         N/N           9         VGA mode 2         31.469         70.086         N/P           10         VGA WESA 85 Hz         37.861         85.080         N/P           11         640 x 480         VGA mode 3         31.469         59.940         N/N           12         Macintosh 13"         35.000         66.667         S on G           13         VGA VESA 72 Hz         37.801         72.809         N/N           14         VGA VESA 75 Hz         37.500         75.000         N/N           15         VGA VESA 85 Hz         37.500         75.000         N/N           16         800 x 600         SVCA VESA 66 Hz         37.879         60.317         P/P           17         SVGA VESA 72 Hz         48.077         72.188         P/P           19         SVGA VESA 75 Hz         48.077         72.188         P/P           20         SVGA VESA 85 Hz         53.674         85.061         P/P           21         832 x 624         Macintosh 16"         49.724         74.550         N/N           22         1024 x 768         XGA VESA 60 Hz         43.636 <td></td> <td>640 x 350</td> <td></td> <td>31.469</td> <td></td> <td>_</td>		640 x 350		31.469		_
9				37.861	85.080	
10	8	640 x 400	PC-9801 Normal	24.823	56.416	N/N
11	9		VGA mode 2	31.469	70.086	N/P
Macintosh 13"   35.000   66.667   S on G	10		VGA VESA 85 Hz	37.861	85.080	N/P
13	11	640 x 480	VGA mode 3	31.469	59.940	N/N
14	12		Macintosh 13"	35.000	66.667	S on G
15	13		VGA VESA 72 Hz	37.861	72.809	N/N
16	14		VGA VESA 75 Hz	37.500	75.000	N/N
17	15		VGA VESA 85 Hz	43.269	85.008	N/N
18	16	800 x 600	SVGA VESA 56 Hz	35.156	56.250	P/P
SVGA VESA 75 Hz	17		SVGA VESA 60 Hz	37.879	60.317	P/P
SVGA VESA 85 Hz   53.674   85.061   P/P	18		SVGA VESA 72 Hz	48.077	72.188	P/P
SVGA VESA 85 Hz   53.674   85.061   P/P	19		SVGA VESA 75 Hz	46.875	75.000	P/P
22	20		SVGA VESA 85 Hz	53.674	85.061	P/P
XGA VESA 60 Hz	21	832 x 624	Macintosh 16"	49.724	74.550	N/N
XGA VESA 70 Hz	22	1024 x 768	XGA VESA 43 Hz	35.524	43.479	P/P
XGA VESA 75 Hz	23		XGA VESA 60 Hz	48.363	60.004	N/N
26	24		XGA VESA 70 Hz	56.476	70.069	N/N
27	25		XGA VESA 75 Hz	60.023	75.029	P/P
27	26		XGA VESA 85 Hz	68.677	84.997	P/P
SXGA VESA 85 Hz   77.487   85.057   P/P	27	1152 x 864	SXGA VESA 70 Hz	63.995		P/P
30	28		SXGA VESA 75 Hz	67.500	75.000	P/P
30	29		SXGA VESA 85 Hz	77.487	85.057	P/P
Sunmicro HI   71.713   76.047   C Neg		1152 x 900		_		
32         1280 x 960         SXGA VESA 60 Hz         60.000         60.000         P/P           33         SXGA VESA 75 Hz         75.000         75.000         P/P           34         1280 x 1024         SXGA VESA 43 Hz         46.433         43.436         P/P           35         SGI-5         53.516         50.062         S on G           SXGA VESA 60 Hz         63.974         60.013         P/P           SXGA VESA 75 Hz         79.976         75.025         P/P	31		Sunmicro HI			C Neg
SXGA VESA 75 Hz   75.000   75.000   P/P		1280 x 960				
34   1280 x 1024   SXGA VESA 43 Hz   46.433   43.436   P/P     35   SGI-5   53.516   50.062   S on G     36   SXGA VESA 60 Hz   63.974   60.013   P/P     37   SXGA VESA 75 Hz   79.976   75.025   P/P						_
35         SGI-5         53.516         50.062         S on G           36         SXGA VESA 60 Hz         63.974         60.013         P/P           37         SXGA VESA 75 Hz         79.976         75.025         P/P		1280 x 1024				
36 SXGA VESA 60 Hz 63.974 60.013 P/P 37 SXGA VESA 75 Hz 79.976 75.025 P/P						_
37 SXGA VESA 75 Hz 79.976 75.025 P/P						
				_		_
	38		SXGA VESA 85 Hz	91.146	85.024	P/P

### **Optional Accessories**

Projector lamp LMP-C120 (for replacement)

Remote control unit RM-PJ610

KW1-1 JU10

Monitor cables SMF-400 SMF-410

Signal cable SMF-402

Macintosh® adaptor **ADP-20** (Macintosh to VGA)

50-inch (viewable area, measured diagonally)portable screen  $\boldsymbol{VPS\text{-}50C^*}$ 

 $^{\ast}$  Not available in some areas. For details, please contact your nearest Sony office.



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