

**SONY**<sup>®</sup>

LCD Video Projector

# VPL-W400Q/W400QM



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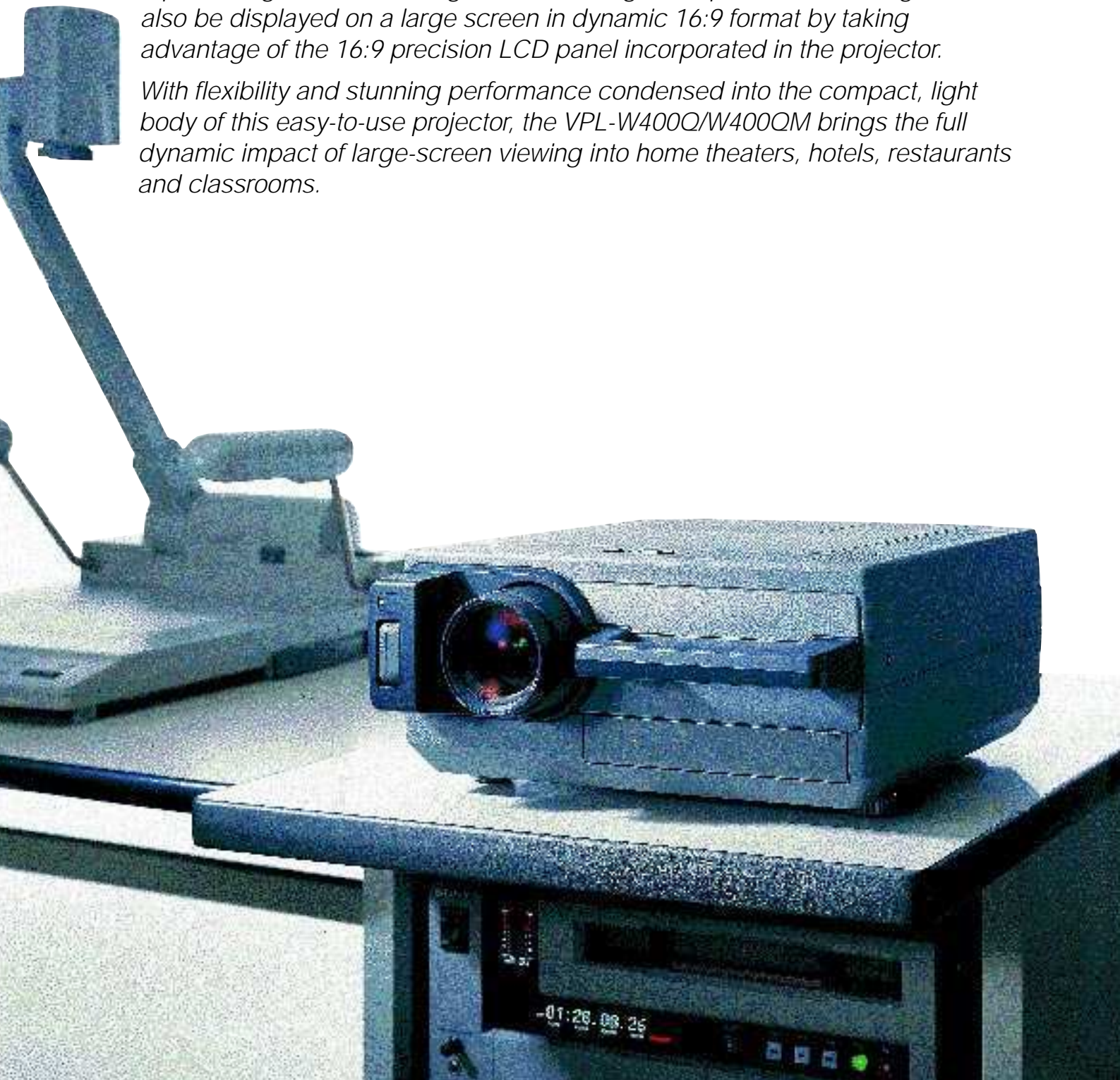
# The LCD Video Projector For

*Sony introduces the VPL-W400Q/W400QM LCD Video Projector, bringing the excitement of large-screen viewing wherever it is used.*

*The Sony VPL-W400Q/W400QM incorporates a newly developed optical unit that achieves superbly uniform and accurate image reproduction, with a dramatic brightness level of 400 ANSI lumen and the excellent horizontal resolution of 600 TV lines.*

*The VPL-W400Q/W400QM is also a performer of great versatility. In addition to reproducing 4:3 and 16:9 signals in their original aspect ratios, 4:3 signals can also be displayed on a large screen in dynamic 16:9 format by taking advantage of the 16:9 precision LCD panel incorporated in the projector.*

*With flexibility and stunning performance condensed into the compact, light body of this easy-to-use projector, the VPL-W400Q/W400QM brings the full dynamic impact of large-screen viewing into home theaters, hotels, restaurants and classrooms.*

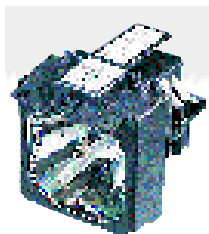




# Superior Picture Performance

## High brightness

By combining the efficiency of an innovative optical unit and a long-life 250W DC drive metal halide lamp, the VPL-W400Q/W400QM achieves and maintains a high light output of 400 ANSI lumen.



250W Metal Halide Lamp

## High resolution

Accurate picture reproduction is assured with 16:9 p-Si TFT LCD panels, giving a total of more than 1,500,000 pixels (3 panels of 1,068 x 480 pixels) and achieving the high resolution of 600TV lines.

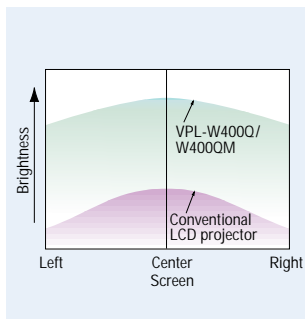
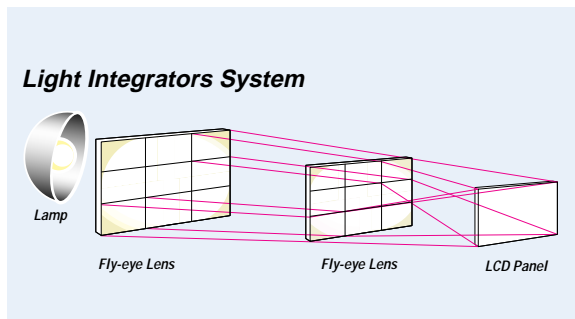


1.35-inch p-Si TFT LCD Panel

## Excellent uniformity

With an innovative optical system featuring light integrators, precision prism and high quality lens, the VPL-W400Q/W400QM

creates an image with uniform color and brightness from corner to corner of the screen.



# Convenient Features

## 16:9 wide aspect ratio

In addition to displaying pictures in their original 4:3 or 16:9 aspect ratio, the VPL-W400Q/W400QM can add the excitement of viewing 4:3 signals with a wide aspect ratio. As well as a normal mode, four other special picture modes can be selected for 16:9 aspect ratio reproduction: FULL, ZOOM, SUBTITLE and WIDE ZOOM. When auto wide is set to ON and the projector receives a letter box signal, the picture automatically switches to wide-screen mode.

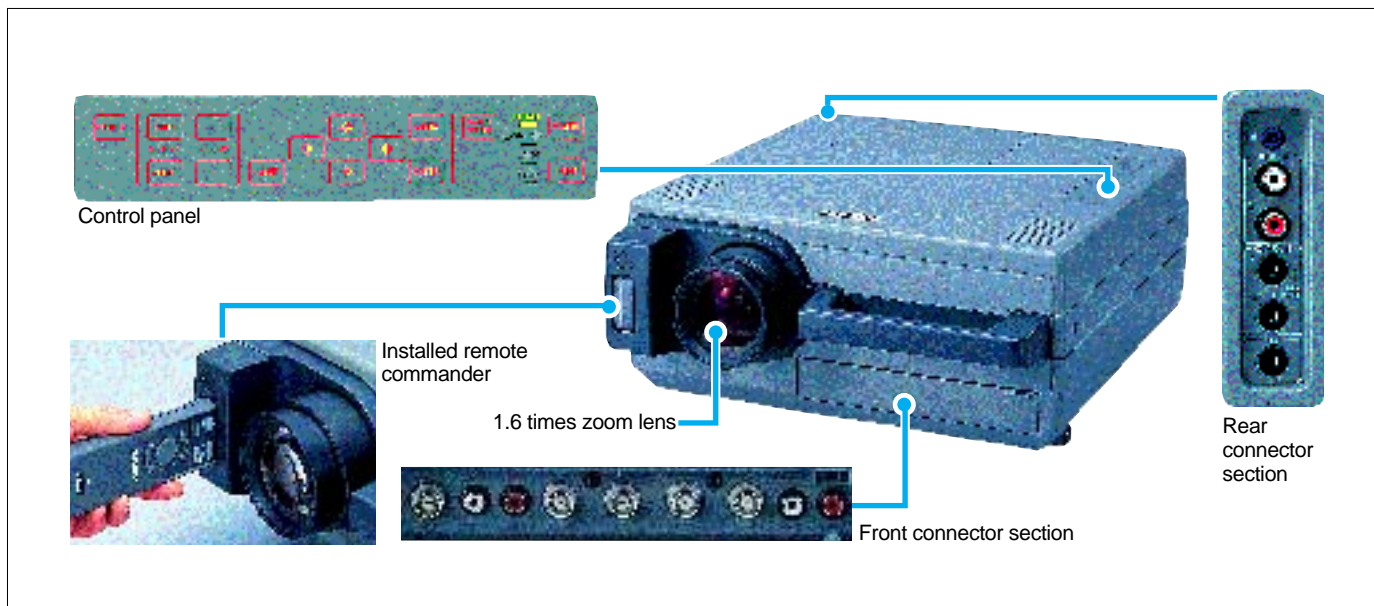
## Input capability

Accepting composite video, Y/C video, component (Y/R-Y/B-Y), RGB and HDTV\*, the VPL-W400Q/W400QM can reproduce images from various video equipment on to screens with sizes ranging from 41 to 300-inches and with a 16:9 aspect ratio.

\* High-definition sources utilizing the 1125/60 interlaced HDTV studio standard format.

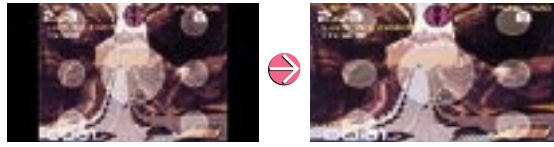
## Memory function

The VPL-W400Q/W400QM has five memories for each of the inputs, VIDEO and INPUT-A, allowing you to store projection condition settings.



**•FULL mode**

This mode brings a new level of excitement to video games, making them more involving and challenging. The picture is enlarged horizontally.



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**•ZOOM mode**

The picture is enlarged vertically and horizontally, making it ideal for capturing the full-screen drama of wide-format movies.



**•SUBTITLE mode**

The picture is enlarged based on the ZOOM mode, but leaving the subtitles on the lower part of the screen.



**•WIDE ZOOM mode**

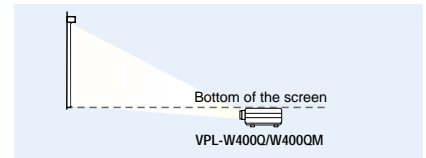
This mode is ideal for conventional 4:3 pictures. The picture is reproduced over the entire screen with a 16:9 aspect ratio.



**Others**

**Installation position**

The VPL-W400Q/W400QM features an optical design which allows the projector to be installed lower in comparison to the screen.



**TRIG terminal**

With the TRIG interface, the screens, curtains and lighting of an integrated projection room can be controlled.

**Power saving function**

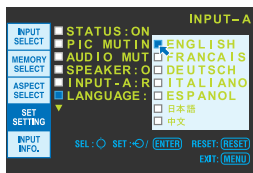
When the power saving mode is set to ON and the projector has not received an input or sync signal for more than 10 minutes, the projector power is automatically reduced.

**Stereo audio system**

Dynamic sound can be enjoyed with the built-in stereo audio system.

**On-screen display**

The on-screen menu display shows the status of major operational functions and adjustments, making it easy to follow each adjustment as it is performed. The on-screen menu indication can be displayed in any one of seven languages: English, French, German, Italian, Spanish, Japanese and Chinese.



**Portability**

The VPL-W400Q/W400QM is compact and light in weight, and can be easily transported. The supplied joystick-type wireless remote commander RM-PJM500 can be kept in the remote commander pocket of the VPL-W400Q/W400QM and carried along with the projector.



**Optional Accessories**



Projection lens  
**VPLL-FM100**

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

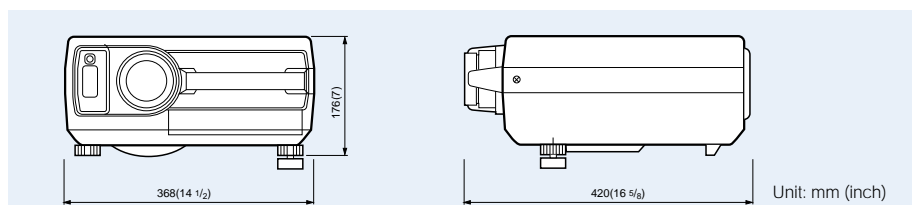


Suspension support  
**PSS-500**



Carrying case  
**VLC-500**

**Dimensions**



Unit: mm (inch)

# Specifications

Optical		
Projection system:	3 LCD panels, 1 lens, projection 1.35-inch p-Si TFT LCD panel, 1,538,640pixels (512,880pixels x 3 panels)	
Projection lens:	1.6 times zoom lens f50 to 80mm/F2.5 to 3.1	
Lamp:	250W metal halide lamp	
Screen coverage:	41 to 300-inch (aspect ratio: 16:9) 34 to 245-inch (aspect ratio: 4:3)	
Light output:	ANSI <sup>*1</sup> : 400lm (16:9)	
Throwing distance:	<16:9>	
	41-inch:	1490 to 2280mm (58 3/4 to 89 7/8 inches)
	80-inch:	3000 to 4570mm (118 1/8 to 180 inches)
	100-inch:	3770 to 5740mm (148 1/2 to 226 inches)
	120-inch:	4540 to 6910mm (178 3/4 to 272 1/8 inches)
	200-inch:	7640 to 11590mm (300 7/8 to 456 3/8 inches)
	300-inch:	11500 to 17450mm (452 7/8 to 687 1/8 inches)
	<4:3>	
	34-inch:	1510 to 2320mm (59 1/2 to 91 3/8 inches)
	80-inch:	3690 to 5620mm (145 3/8 to 221 3/8 inches)
	100-inch:	4630 to 7050mm (182 3/8 to 277 3/8 inches)
	120-inch:	5580 to 8480mm (219 to 333 3/8 inches)
	200-inch:	9370 to 14210mm (369 to 559 1/2 inches)
	245-inch:	11500 to 17440mm (452 7/8 to 686 3/8 inches)
General		
Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> /PAL-M automatically selected	
Resolution:	600TV lines	
Speakers:	Max. 2W+2W, 7 x 4cm stereo	
Power requirements:	VPL-W400Q: AC 100 to 120V/220 to 240V <sup>**</sup> , 50/60Hz VPL-W400QM: AC 220 to 240V, 50/60Hz	
Power consumption:	Max.: 350W, Stand by: 10W	
Heat dissipation:	1194.4BTU	
Dimensions:	368(W) x 176(H) x 420(D) mm (14 1/2 x 7 x 16 5/8 inches)	
Mass:	Approx. 10kg (22 lb)	
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 IN:	Composite video	BNC 1Vp-p±2dB sync negative, 75Ω Mini DIN 4-pin
S VIDEO:	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
INPUT A:	BNC x4	
	Analog RGB/Component:	
	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
	Composite sync:	0.6 to 8Vp-p, high impedance, sync negative
	HDTV <sup>**3</sup> (Y/P <sub>B</sub> /P <sub>R</sub> ):	
	Y:	1Vp-p±2dB, 75Ω Tri-level sync: ±0.3Vp-p, Bi-level sync: 0.3Vp-p ±0.35Vp-p±2dB, 75Ω
	P <sub>B</sub> /P <sub>R</sub> :	
	HDTV <sup>**3</sup> (GBR):	
	G with sync:	1Vp-p±2dB, 75Ω Tri-level sync: ±0.3Vp-p, Bi-level sync: 0.3Vp-p 0.7Vp-p±2dB, 75Ω
	B/R:	
Audio IN:	Phono (x2)	Stereo, 500mVrms, impedance more than 47kΩ
AUDIO OUT: (Variable out)	Phono (x2)	Max. 1Vrms, 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
TRIG:	Mini jack	Power ON: DC 5V output impedance 4.7kΩ Power OFF: 0V
Safety Regulations	VPL-W400Q:	UL1950, CSA950, FCC Class B, IC Class B
	VPL-W400QM:	EN60 950 (TUV), CE
Accessories		
Supplied accessories:	Remote commander RM-PJM500, AA (R6) size battery (x2), AC power cord, BNC (male) to Phono (female) adapter, Operating Instructions	
Optional accessories:	Projector lamp (for replacement) PK-PJ500 <sup>**4</sup> Projection lens VPLL-FM100 Carrying case VLC-500 Suspension support PSS-500 Signal interface cable SIC-10	

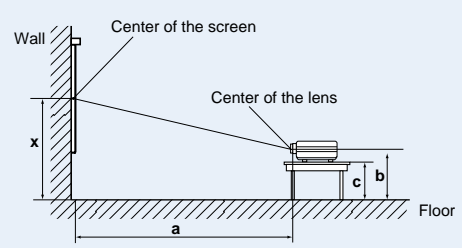
<sup>\*1</sup> ANSI is a measuring method of American National Standard ANSI IT7.215.

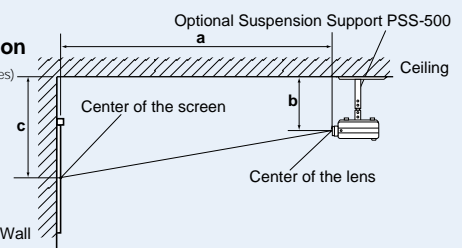
<sup>\*\*2</sup> UL listed for 120V operation.

<sup>\*\*3</sup> HDTV: 1125/60 interlaced HDTV studio standard system.

<sup>\*\*4</sup> PK-PJ500 is not available in some areas. For details, please consult your nearest Sony office.

# Installation Examples

Floor Installation		Unit: mm (inches)									
											
		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				
		Unit: mm (inches)									
16:9 Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a		Minimum (58 1/2)	2220 (87 1/2)	3000 (118 1/8)	3770 (148 1/2)	4540 (178 3/4)	5700 (224 1/2)	6860 (270 1/2)	7640 (300 3/4)	9570 (376 3/8)	11500 (452 3/8)
		Maximum (89 1/2)	3400 (133 1/2)	4570 (180)	5740 (226)	6910 (272 1/2)	8660 (341)	10420 (410 1/4)	11590 (456 3/8)	14520 (571 3/4)	17450 (687 1/2)
b		x-334 (13 1/4)	x-488 (19 1/2)	x-651 (25 3/4)	x-814 (32 1/2)	x-977 (38 3/4)	x-1221 (48 1/2)	x-1465 (57 3/4)	x-1628 (64 1/2)	x-2035 (80 1/2)	x-2442 (96 1/2)
c		x-445 (17 1/2)	x-599 (23 3/4)	x-762 (30 1/2)	x-925 (36 1/2)	x-1088 (42 1/2)	x-1332 (52 1/2)	x-1576 (62 1/2)	x-1739 (68 1/2)	x-2146 (84 1/2)	x-2553 (100 3/4)
4:3 Screen size (inches)		34	60	80	100	120	150	180	200	245	
a		Minimum (59 1/2)	2740 (107 1/2)	3690 (145 3/8)	4630 (182 3/8)	5580 (219 3/4)	7000 (275 3/8)	8420 (331 1/2)	9370 (369)	11500 (452 3/8)	
		Maximum (91 3/8)	4180 (164 3/8)	5620 (221 3/8)	7050 (277 3/8)	8480 (333 3/8)	10630 (418 3/8)	12780 (503 1/4)	14210 (559 1/2)	17440 (686 3/8)	
b		x-339 (13 3/4)	x-598 (23 3/4)	x-797 (31 1/2)	x-996 (39 1/2)	x-1196 (47 1/2)	x-1494 (58 3/4)	x-1793 (70 1/2)	x-1993 (78 1/2)	x-2441 (96 1/4)	
c		x-450 (17 3/4)	x-709 (28)	x-908 (35 3/4)	x-1107 (43 1/2)	x-1307 (51 1/2)	x-1605 (63 1/4)	x-1904 (75)	x-2104 (82 1/2)	x-2552 (100 3/4)	

Ceiling Installation		Unit: mm (inches)									
											
		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 center of the screen					x: free				
		Unit: mm (inches)									
16:9 Screen size (inches)		60	80	100	120	150	180	200	250	300	
a		Minimum (87 1/2)	2220 (87 1/2)	3000 (118 1/8)	3770 (148 1/2)	4540 (178 3/4)	5700 (224 1/2)	6860 (270 1/2)	7640 (300 3/4)	9570 (376 3/8)	11500 (452 3/8)
		Maximum (133 1/2)	3400 (133 1/2)	4570 (180)	5740 (226)	6910 (272 1/2)	8660 (341)	10420 (410 1/4)	11590 (456 3/8)	14520 (571 3/4)	17450 (687 1/2)
b		247/272/297/347/372/397 (9 3/4 / 10 3/4 / 11 3/4 / 13 3/4 / 14 3/4 / 15 1/4) adjustable									
c		b+488 (19 1/2)	b+651 (25 3/4)	b+814 (32 1/2)	b+977 (38 3/4)	b+1221 (48 1/2)	b+1465 (57 3/4)	b+1628 (64 1/2)	b+2035 (80 1/2)	b+2442 (96 1/4)	
4:3 Screen size (inches)		60	80	100	120	150	180	200	245		
a		Minimum (107 1/2)	3590 (141 1/2)	4630 (182 3/8)	5580 (219 3/4)	7000 (275 3/8)	8420 (331 1/2)	9370 (369)	11500 (452 3/8)		
		Maximum (164 3/8)	5620 (221 3/8)	7050 (277 3/8)	8480 (333 3/8)	10630 (418 3/8)	12780 (503 1/4)	14210 (559 1/2)	17440 (686 3/8)		
b		247/272/297/347/372/397 (9 3/8 / 10 3/4 / 11 3/4 / 13 3/4 / 14 3/4 / 15 1/4) adjustable									
c		b+598 (23 3/4)	b+797 (31 1/2)	b+996 (39 1/2)	b+1196 (47 1/2)	b+1494 (58 3/4)	b+1793 (70 1/2)	b+1993 (78 1/2)	b+2441 (96 1/4)		

Features and specifications subject to change without notice.

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