

## VPL-CW256

4,500 lumens WXGA installation projector



### Overview

#### **Bright, high resolution images, with simple set-up and low running costs for schools or meeting rooms**

The VPL-CW256 offers installation flexibility, energy efficiency with a low total cost of ownership, and high image quality, while boasting a stylish design that blends into any decor.

Image correction features and a lens shift/zoom capability enable users to easily fit any image onto the screen, even from an offset projection angle.

In addition, these installation projectors are thoughtfully designed for optimum energy efficiency with a reduced total cost of ownership. They feature an auto power saving function, picture muting function with lamp control technology, long-lasting lamp, and low power consumption.

Every model delivers high image quality. The VPL-CW256 offers 4,500 lumens\* brightness and supports wide screen projection with WXGA resolution.

With all the features and functionality that you expect from Sony – particularly easy installation and usability, energy efficiency and low maintenance, and dependable image quality – the VPL-

CW256 is ideal for mid- to large-size classrooms, conference rooms, and many similar environments.

\* ISO 21118

## Features

### **Bright, clear images with maximum 4,500 lumens colour light output**

The projector's high light output ensures that presentations are seen clearly in any classroom or meeting room. Choose from three brightness modes to suit any environment – High for naturally white presentations in bright rooms, Standard for everyday use, and Low for watching video in darkened rooms.

### **1.32:1 to 1.91:1 throw ratio**

The VPL-CW256 offers a 1.32:1 to 1.91:1 throw ratio, allowing installation in most larger classrooms or meeting rooms.

### **High resolution lens**

The high resolution Advanced Crisp Focus (ACF) lens offers a large diameter and fine pitch to ensure clear, sharp pictures.

### **Fine lens shift**

The projector's wide lens shift range means that the projector can be positioned closer to the ceiling, or horizontally offset to avoid ceiling obstacles.

### **3LCD BrightEra™ Technology**

The projector's efficient 3LCD panel system is enhanced by advanced BrightEra™ technology by Sony. You'll see the difference with impressively bright, consistent, high resolution images and increased panel reliability.

### **WXGA resolution for detail-packed presentations**

WXGA (1280 x 800) 16:10 resolution offers lots of crisp, fine detail: perfect for making presentations direct from a laptop or PC.

## **Quieter operation**

Acoustic fan noise is reduced compared with previous models for even quieter operation.

## **Save energy at the touch of a button**

Just push the ECO MODE button on the projector or remote commander to instantly access a range of energy-saving settings.

## **Auto Dimming**

Projector brightness is gradually reduced automatically if there's no input signal, or after a pre-set time – cutting power consumption and saving energy bills. Brightness instantly returns to maximum when an input signal is detected.

## **Power Saving Picture Mute**

Touch a button on the projector remote and the picture's muted instantly. Another touch and the projector's instantly powered back up to resume your presentation.

## **Vertical and Horizontal Keystone Adjustment**

Keystone distortion of vertically up to +/- 30 degrees and horizontally up to +/- 20 degrees can be digitally corrected via the on-screen menu and/or remote commander. This allows images to be projected with their correct geometry, even when installation space is limited.

## **Advanced Geometric Correction**

Each image corner and side can be grabbed and adjusted for a true, square fit - invaluable when projecting from an offset position.

## **Smart APA (Auto Pixel Alignment)**

Phase, Pitch and Shift values are automatically optimised when using the projector with a PC source. These values can also be adjusted manually.

## **Auto Input Search**

The projector automatically switches to the correct input, simplifying set-up and saving time.

### **Audio switcher facility**

The projector can select between two audio sources, routing them via a variable audio output to the room amplification system.

### **Picture Freeze Function**

Picture Freeze is useful if you need to look at other material on your PC's screen during presentations without the audience seeing it. Freeze the current image that's being projected, and use your PC independently from the projector display.

### **Get closer with Digital Zoom**

Instantly magnify a selected portion of the screen by up to 4x for a really close-up view of images from a connected PC.

### **Off and Go**

Touch a button at the end of your presentation and projector is turned off immediately, without going through a lengthy power-down cycle.

### **Direct Power On/Off**

There's no need to go through Standby mode when powering up the projector: the projector activates as soon as power is supplied.

### **Security that's built in**

Your investment's protected with security measures including password protection and physical anti-theft anchor points.

## Specifications

### Display System

3 LCD system

## Display System

### Display device

|                                |   |
|--------------------------------|---|
| Size of effective display area | 0.75" (19.1 mm) x 3, BrightEra, Aspect ratio: 16:10 |
|--------------------------------|---|

|                  |                                   |
|------------------|-----------------------------------|
| Number of pixels | 3,072,000 (1280 x 800 x 3) pixels |
|------------------|-----------------------------------|

### Projection lens

|       |        |
|-------|--------|
| Focus | Manual |
|-------|--------|

|                       |        |
|-----------------------|--------|
| Zoom - Powered/Manual | Manual |
|-----------------------|--------|

|              |                |
|--------------|----------------|
| Zoom - Ratio | Approx. 1.45 x |
|--------------|----------------|

|             |                  |
|-------------|------------------|
| Throw Ratio | 1.32:1 to 1.91:1 |
|-------------|------------------|

|                             |        |
|-----------------------------|--------|
| Lens shift - Powered/Manual | Manual |
|-----------------------------|--------|

|                             |        |
|-----------------------------|--------|
| Lens shift - Range Vertical | +/- 5% |
|-----------------------------|--------|

|                               |        |
|-------------------------------|--------|
| Lens shift - Range Horizontal | +/- 3% |
|-------------------------------|--------|

### Light source

|      |                                  |
|------|----------------------------------|
| Type | Ultra high pressure mercury lamp |
|------|----------------------------------|

|         |            |
|---------|------------|
| Wattage | 245 W type |
|---------|------------|

### Recommended lamp replacement time \*1

|                 |        |
|-----------------|--------|
| Lamp mode: High | 3000 H |
|-----------------|--------|

|                     |        |
|---------------------|--------|
| Lamp mode: Standard | 4000 H |
|---------------------|--------|

|                |        |
|----------------|--------|
| Lamp mode: Low | 5000 H |
|----------------|--------|

### Filter cleaning / replacement cycle (Max.) \*1

|  |  |
|--|--|
| Filter cleaning / replacement cycle (Max.) | Same time as the lamp replacement is recommended |
|--|--|

### Screen size

|             |   |
|-------------|---|
| Screen size | 40" to 300" (1.02 m to 7.62 m)<br>(measured diagonally) |
|-------------|---|

### Light output

|                 |         |
|-----------------|---------|
| Lamp mode: High | 4500 lm |
|-----------------|---------|

|                     |         |
|---------------------|---------|
| Lamp mode: Standard | 3400 lm |
|---------------------|---------|

|                |         |
|----------------|---------|
| Lamp mode: Low | 2500 lm |
|----------------|---------|

## Color light output

Lamp mode: High      4500 lm

Lamp mode: Standard   3400 lm

Lamp mode: Low      2500 lm

## Contrast ratio (full white / full black) \*2

Contrast ratio (full white / full black)      3700:1

## Speaker

Speaker      10 W x 1 (monaural)

## Displayable scanning frequency

Horizontal      19 kHz to 92 kHz

Vertical      48 Hz to 92 Hz

## Display resolution

Computer signal input      Maximum display resolution: UXGA  
1600 x 1200 dots\*3

Video signal input      NTSC, PAL, SECAM, 480/60i,  
576/50i, 480/60p, 576/50p, 720/60p,

720/50p, 1080/60i, 1080/50i

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## Color system

Color system                    NTSC3.58, PAL, SECAM, NTSC4.43,  
PAL-M, PAL-N, PAL60

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## Keystone correction (Max.)

Vertical                            +/- 30°

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Horizontal                       +/- 20°

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## OSD language

OSD language                    24-language (English, French,  
German, Italian, Spanish,  
Portuguese, Japanese, Simplified  
Chinese, Traditional Chinese,  
Korean, Russian, Dutch,  
Norwegian, Swedish, Thai, Arabic  
,Turkish, Polish, Vietnamese, Farsi,  
Indonesian, Finnish, Hungarian,  
Greek)

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## INPUT OUTPUT (Computer/Video/Control)

RGB / Y PB PR input connector:

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|          |   |
|----------|---|
| INPUT A  | Mini D-sub 15-pin (female)<br>Audio input connector: Stereo mini jack   |
| INPUT B  | RGB input connector: Mini D-sub 15-pin (female)<br>Audio input connector: Stereo mini jack                          |
| INPUT C  | HDMI input connector: HDMI 19-pin, HDCP support   |
| INPUT D  | HDMI input connector: HDMI 19-pin, HDCP support   |
| VIDEO IN | Video input connector: Pin jack<br>Audio input connector: Pin jack (x2)   |
| OUTPUT   | Monitor output connector*4: Mini D-sub 15-pin (female)<br>Audio output connector*5: Stereo mini jack (variable out) |
| REMOTE   | D-sub 9-pin (male)/RS232C   |
| LAN      | RJ-45, 10BASE-T/100BASE-TX  |

## Acoustic noise

Lamp mode: Low      29 dB

## Operating temperature / Operating humidity

|   |  |
|---|--|
| Operating temperature /<br>Operating humidity | 0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation) |
|---|--|

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## Storage temperature / Storage humidity

|   |  |
|---|--|
| Storage temperature /<br>Storage humidity | -10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation) |
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## Power requirements

|                    |  |
|--------------------|--|
| Power requirements | AC 100 V to 240 V 3.5 A to 1.5 A, 50/60 Hz |
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## Power consumption

|                   |                         |
|-------------------|-------------------------|
| AC 100 V to 120 V | Lamp mode: High : 346 W |
|-------------------|-------------------------|

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|                   |                         |
|-------------------|-------------------------|
| AC 220 V to 240 V | Lamp mode: High : 326 W |
|-------------------|-------------------------|

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## Power Consumption (Standby Mode)

|                   |   |
|-------------------|---|
| AC 100 V to 120 V | 0.5 W (when “Standby mode” is set to “Low”) |
|-------------------|---|

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|                   |   |
|-------------------|---|
| AC 220 V to 240 V | 0.5 W (when “Standby mode” is set to “Low”) |
|-------------------|---|

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## Power Consumption (Networked Standby Mode)

|                   |  |
|-------------------|--|
| AC 100 V to 120 V | 3.0 W (LAN) (when "Standby Mode" is set to "Standard") |
| AC 220 V to 240 V | 3.0 W (LAN) (when "Standby Mode" is set to "Standard") |

## Standby Mode / Networked Standby Mode Activated

|   |                        |
|---|------------------------|
| Standby Mode / Networked Standby Mode Activated | After about 10 minutes |
|---|------------------------|

## Heat dissipation

|                   |            |
|-------------------|------------|
| AC 100 V to 120 V | 1180 BTU/h |
| AC 220 V to 240 V | 1112 BTU/h |

## Dimensions (W x H x D)

|  |  |
|--|--|
| Dimensions (W x H x D) (without protrusions) | Approx. 406 × 113 × 330.5 mm (15 31/32 × 4 7/16 × 13 inches) |
|--|--|

## Mass

|      |                        |
|------|------------------------|
| Mass | Approx. 5.6 kg (12 lb) |
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## Supplied accessories

|                  |        |
|------------------|--------|
| Remote commander | RM-PJ8 |
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## Optional Accessories

|                  |          |
|------------------|----------|
| Replacement lamp | LMP-C240 |
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## Notes

|    |   |
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| *1 | The figures are the expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used. |
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|    |                       |
|----|-----------------------|
| *2 | The value is average. |
|----|-----------------------|

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|    |   |
|----|---|
| *3 | Available for VESA Reduced Blanking signal. |
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|    |                           |
|----|---------------------------|
| *4 | From INPUT A and INPUT B. |
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|    |   |
|----|---|
| *5 | Works as an audio switcher function. Output from a selected channel; not available in standby |
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Environmental notice  
for customers in the  
USA

Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see [www.sony.com/mercury](http://www.sony.com/mercury) for additional information.

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## Gallery

