

## ZRD-VP15EB

Crystal LED video wall modular display cabinet, compatible with Brompton Tessera SX40 processor



### Overview

#### **Image quality, flexibility and familiar workflow to meet today's virtual production needs**

Optimised for demanding virtual production applications, the ZRD-VP15EB Crystal LED modular display cabinet allows creation of LED video walls of virtually any size and scale.

Drawing on Sony's leadership in motion picture production and entertainment technology, the ZRD-VP15EB offers content creators and rental specialists a combination of exceptional image quality, installation flexibility, simple maintenance and low ownership costs to accommodate the needs of modern virtual production facilities.

Sony's newly developed Deep Black and Anti-Reflection Surface Technology delivers very high image quality, with an impressive 1,500 cd/m<sup>2</sup> brightness, wide colour gamut and high refresh rate complemented by extremely deep black levels to allow the creation of ultra-realistic virtual sets.

The ZRD-VP15EB is compatible with the industry-standard Brompton Technology's Tessera SX40 processor, simplifying integration into a wide range of virtual production environments while reducing training requirements.

## Features

### **Industry-leading black levels with reduced reflections and glare**

Achieving deep, realistic black levels is one of the most persistent challenges in virtual production workflow. Incident light from other sources falling on the LED wall can cause inadequate black levels in virtual backgrounds, requiring costly correction in post production. The ZRD-VP15EB utilises Sony's newly developed Deep Black and Anti-Reflection Surface Technologies to achieve unmatched black levels, allowing incredibly natural, realistic mixing of real and virtual elements.

Development of the advanced surface technology for the ZRD-VP15EB has demanded exhaustive evaluation of different candidate materials and techniques. A key challenge was achieving unprecedented black levels, extremely high brightness and a wide cinematic colour gamut while minimising reflections from the panel surface under the glare of powerful studio lighting. The successful result has been made possible by Sony's extensive heritage and technical knowledge of display surface treatments and optical engineering, coupled with our close relationships with industry-leading material vendors.

### **High brightness and wide, cinematic colour gamut**

The ZRD-VP15EB is ideally suited to the demands of virtual production, with an extremely high display brightness of 1,500 cd/m<sup>2</sup> complemented by accurate reproduction of over 98% of the DCI-P3 colour gamut.

### **High refresh rate reduces scanline artifacts**

If the refresh rate of an LED display is too low, it can cause flickering and distracting scanline artifacts that are particularly noticeable with today's high frame rate cameras used for virtual production. The ZRD-VP15EB series employs high performance LED driver ICs (Integrated Circuits) capable of extremely high refresh rates up to 7,680Hz – significantly greater than other commercially available LED wall solutions.

## **Installation flexibility**

The ZRD-VP15EB gives system integrators and rental specialists exceptional installation freedom. Popular with the virtual production rental industry, the self-stacking cabinet's square 1:1 proportions simplify rapid LED wall assembly. The modular LED panels are easy to install without needing special skills or costly jigs and other complex equipment, simplifying the construction of LED walls of virtually any scale and shape, including very large stacks and curved surfaces. Easy Z-axis adjustment allows fine alignment of individual cabinets, ensuring that the LED wall surface is extremely flat to eliminate visible lines when shooting from an angle. The ZRD-VP15EB features protection measures to minimize the risks of costly accidental damage when individual cabinets are joined together during LED wall construction. In addition each module a LED surface protection that safeguards LEDs from being dislodged or damaged.

## **Quick, easy routine maintenance**

The ZRD-VP15EB is designed for easy maintenance, cutting pressure on technical crews with time-saving features for simple maintenance. Individual LED modules can be easily exchanged with access from the back of the cabinet. A status indicator light on the back of each module makes it simple to identify any units that need exchanging. Each module's power unit can be easily detached via a simple locking knob, with no special tools needed.

## **Energy efficient design**

Electrical power consumption is a significant contributor to everyday running costs for any virtual production facility. Energy-efficient super fine LED circuits are combined with advanced Sony power control technology, reducing consumption by up to 38%\* compared to conventional LED walls.

\* As power per unit brightness.

## **Workflow friendly**

Crystal LED is designed to fit smoothly and efficiently into today's virtual production workflow. ZRD-VP15EB is available in versions that are fully compatible with leading LED wall display controller companies Brompton, simplifying integration into a wide range of virtual production environments while reducing training requirements. Furthermore, exceptional black levels and consistently accurate colour reproduction during shooting means less additional work in post-production.

## Specifications

General	
Supported Display Controller	Brompton Tessera SX40
Pixel Pitch	1.56 mm
Surface	Deep Black and Anti-Reflection Surface Technology
Resolution (W x H)	320 x 320
Brightness (Max.)	1,500 cd/m <sup>2</sup>
Contrast Ratio (0 lx)	More than 1,000,000:1
Viewing Angle (H/V)	170°/170°
Color Gamut	Approx. 88% (BT2020, Δu'v' coverage) Approx. 98% (DCI-P3, Δu'v' coverage)

	Approx. 151% (sRGB, Δu'v' area)
Refresh Rate	7,680Hz
Signal Interface	1 in 1 out (2 x RJ45)
Operation Temperature / Operation Humidity	0°C to 45°C (32°F to 113°F) / 20 to 80% (No condensation)
Storage Temperature / Storage Humidity	-20°C to 60°C / 20 to 80% (No condensation)
Power Requirements	AC100-240V, 50/60Hz
Power Consumption (Max.) Calibration mode: Off or Overdrive: On	145 W (Per-sqm: 580 W)
Power Consumption (Calibrated 100 % brightness) Calibration mode: On	108 W (Per-sqm: 432 W)
Power Consumption (Ave. 30% brightness) Calibration mode: On	60 W (Per-sqm: 240 W)
Dimensions (W x H x D)	500 x 500 x 93 mm (19 11/16 × 19 11/16 × 3 21/32 in)
	Approx. 10.1 kg (22 lb 4.27 oz)

Mass / Weight (Per-sqm: Approx. 40.4 kg)

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Max. Self-stacking / Hanging Max. 14 cabinets (7 m) / Max. 14 cabinets (7 m)

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Application Indoor

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## Gallery



