

## ZRD-B12A

High brightness Crystal LED  
video wall modular display  
cabinet



### Overview

#### **Unforgettable images to match the largest creative ambitions**

The ZRD-B12A modular display cabinet combines advanced Crystal LED technology with powerful processor "X1™ for Crystal LED" to create bigger, bolder, more attention-grabbing visual experiences.

Offering a spectacular brightness of 1,800 cd/m<sup>2</sup>, the ZRD-B12A is ideal for presenting high-impact HDR content in sunlit corporate lobbies, virtual sets and production backdrops. Cutting-edge picture processing technologies ensure spectacular large-scale images with industry leading clarity, contrast and colour.

The ZRD-B12A features a resolution of 480 x 270 dots, with a pixel pitch of 1.26 mm.

The borderless design of each energy-efficient Crystal LED panel allows multiple ZRD-B12A cabinets to be tiled seamlessly, creating super-size high resolution displays with virtually any dimensions or aspect ratio – and no bezels or visible gaps. The slim, light Micro LED panels are easy to install and maintain without requiring special skills or complex equipment.

## Features

### **Unmissable images as big as your imagination**

Tile multiple ZRD-B12A modules to create totally seamless extra-large displays - and impress your audience with uniquely rich, immersive images that bring viewers even closer to reality.

### **Very high brightness with anti-reflection coating**

The high contrast, low reflection panel offers a spectacular 1,800 cd/m<sup>2</sup> brightness: ideal for high-impact presentations in sunlit corporate lobbies, virtual sets and production backdrops.

### **Exquisite image clarity, near or far**

Reality Creation\* upscales lower resolution content to look sharper and more detailed, even when viewed in close-up. The powerful processor "X1 for Crystal LED" optimises signals and reduces image noise. Ideal for 24p input video, Motionflow\* ensures smooth, blur-free images with near-instant response.

\*This function cannot be used with multiple display controllers.

### **Under Extraordinary contrast, HDR ready**

Each tiny Crystal LED element occupies a small fraction of the mounting area that's black. The result: an extraordinary contrast ratio of more than 1,000,000:1 that's far greater conventional LED array systems. 22bit Super Bit Mapping ensures a smoothly graduated tonal range from deep blacks to bright, sparkling highlights - ideal for presenting HDR (High Dynamic Range) content.

### **Wide viewing angle**

The display panel's extra wide viewing angle allows everyone in the room to enjoy an uncompromised visual experience, wherever they're standing.

### **Smooth, richly realistic colour**

The display achieves a wide colour gamut, highly realistic tonal reproduction.

## Flexible installation to suit any space

The slim, light borderless panels are easy to install without needing special skills or complex equipment. Panels can be wall or floor mounted to suit any interior, even in curved spaces. Installation doesn't require access behind the cabinets, freeing up more room space.

## Reliable operation, low ownership costs

Energy efficient technology allows a quiet, fanless design with no costly air conditioning needed. Maintenance is simplified with easy front accessibility to reduce ownership costs further.

## Specifications

| General               |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Pixel Pitch           | 1.26 mm                                                                                                                             |
| Surface               | Anti-reflection coating                                                                                                             |
| Resolution (W x H)    | 480 x 270                                                                                                                           |
| Brightness (Max.)     | 1,800 cd/m <sup>2</sup>                                                                                                             |
| Contrast Ratio (0 lx) | More than 1,000,000:1                                                                                                               |
| Viewing Angle (H/V)   | 170° / 170°                                                                                                                         |
| Color Gamut           | Approx. 83 % (BT2020, Δu'v' coverage)<br>Approx. 97 % (DCI-P3, Δu'v' coverage) (DCI acceptable)<br>Approx. 143 % (sRGB, Δu'v' area) |

|                                            |                                                            |
|--------------------------------------------|------------------------------------------------------------|
| Bit Depth                                  | 22 bit Internal Processing                                 |
| Frame Rate                                 | Up to 120 fps                                              |
| Signal Interface                           | 1 in 1 out (2 x RJ45)                                      |
| Operating Temperature / Operating Humidity | 0 °C to 40 °C / 20% to 80% (no condensation)               |
| Storage Temperature / Storage Humidity     | -20 °C to 60 °C / 20% to 80% (no condensation)             |
| Power Requirements                         | AC 100 - 240 V, 50 / 60 Hz                                 |
| Power Consumption (Max.)                   | 157 W (Per-sqm: 755 W)                                     |
| Power Consumption (Ave.)                   | 64 W (Per-sqm: 308 W)                                      |
| Dimensions (W x H x D)                     | 608 x 342 x 76 mm (23 15 16 x 13 15 32 x 2 6364 in)        |
| Mass                                       | Approx. 9.5 kg (20 lb 15.10 oz) (Per-sqm: Approx. 45.7 kg) |
| Application                                | Indoor                                                     |
| Notes                                      | Please refer to the installation manual for installation.  |

## Gallery

