

ZRD-C12A

High-contrast Micro LED
video wall modular display
cabinet



Overview

The ZRD-C12A modular display cabinet combines advanced Micro LED technology with the powerful "X1™ for Crystal LED" processor to create bigger, bolder, more attention-grabbing visual experiences.

Offering spectacular 1,000,000:1 contrast and a high brightness of 800 cd/m², the ZRD-C12A is ideal for presenting immersive HDR content in a wide range of environments, including corporate lobbies, showrooms, boardrooms, museums, galleries, and other public spaces. Cutting-edge picture-processing technologies ensure immersive large-scale images with industry-leading clarity and color.

The ZRD-C12A features a resolution of 480 x 270 dots, with a pixel pitch of 1.26 mm.

The borderless design of each energy-efficient Micro LED panel allows multiple ZRD-C12A 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

Tile multiple ZRD-C12A Micro LED modules to create totally seamless extra-large displays—and impress your audience with uniquely rich, immersive images that bring viewers even closer to reality.

Crystal LED C-series displays are designed with contrast in mind. Enjoy deep blacks and rich colors in a range of environments including showrooms, entrances, and lobbies.

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" optimizes 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.

Each tiny Micro 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 than conventional LED array systems. Deep black coating and 22-bit Super Bit Mapping ensures a smoothly graduated tonal range from deep blacks to bright, sparkling highlights—ideal for presenting HDR (High Dynamic Range) content.

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

The display achieves a remarkably wide color gamut for rich, highly realistic tonal reproduction.

The slim, light, borderless Micro LED 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.

Energy-efficient Micro LED panel 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

Specification	
Pixel Pitch	1.26 mm
Surface	Deep black coating
Resolution (W x H)	480 x 270
Brightness (max.)	800 cd/m ²
Contrast Ratio (0 lx)	More than 1,000,000:1

Viewing Angle (H/V)	160 °/160 °
Color Gamut	Approx. 83% (BT2020, $\Delta u'v'$ coverage) Approx. 97% (DCI-P3, $\Delta u'v'$ coverage) (DCI acceptable) Approx. 143% (sRGB, $\Delta u'v'$ area)
Bit Depth	22-bit Internal Processing
Frame Rate	Up to 120 frames per second
Signal Interface	1 in 1 out (2 x RJ45)
Operating Temperature / Operating Humidity	32 °F to 104 °F / 20% to 80% (no condensation)
Storage Temperature / Storage Humidity	-4 °F to 140 °F / 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 (23.94 x 13.46 x 2.99 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

