product specification

AXION SERIES

Indoor P1.8 • 16:9 aspect ratio
fine pitch wall mounted LED display system

Overview

Vanguard's Axion Series cabinets have a native aspect ratio of 16:9. If 16:9 cabinets are arrayed with equal cabinet height & width (i.e. 10x10 or 8x8), the entire display will retain a 16:9 viewing aspect ratio. Axion is available in pixel pitches of P0.94, P1.2, P1.3, P1.6, P1,8, P2.5.

Axion is 100% front serviceable. Axion cabinets feature 100% internal cabling – no external jumpers on the rear, making this cabinet ideal for wall mounting. Axion cabinets are designed for wall mounting only. At only 2.28" deep, the Axion cabinet can be wall mounted to meet ADA requirements, and Axion can also be recessed within a wall. Pre-threaded mounting location make installation simple. Magnetic LED modules make module replacement quick & easy.

Additional Features

- Fan-less design
- Low Power Consumption
- IC driver specifications allow for customizable refresh & scan rates
- Receiving card specifications allow for custom gray levels from 14-18 bit
- Redundant power & data configurations available for zero failure situations
- No internal jumpers. Cabinets contain a single cable-less PCB connection for data & power per module
- Anti-Moire mask available for camera sensitive angle, depth & distance solutions
- Included seam brightness compensation
- High gray scale & high refresh rate
- Resin encapsulated LED modules available for increased durability
- Available half size cabinets
- Smart module data retention
- Superb color & brightness uniformity
- Refresh rates up to 3840Hz
- Contrast Ratio: 3000:1

Specifications

Axion Indoor P1.8

LED

LED Type	SMD1515
LED Configuration	3 in one
Pixel Density	390,625/m²
Module Size	6" x 7.1"
Module Resolution	85 x 96
Modules Per Cabinet	8
Lifetime to Half Brightness (L50)	100,000
Contrast Ratio	3,000:1
Brightness	600-800Nits
Viewing Angle	160° x 160°
Minimum Viewing Distance	5.94 ft.

CABINET

Aspect Ratio	16:9
Cabinet Material	Die Cast Aluminum
Cabinet Size	25.20" x 14.17" x 2.28"
Cabinet Resolution	340 x 192
Cabinet Weight	17 lbs.
Service Access	Front
IP Rating	IP30

INTERNAL OPERATION

Driving Method	1/15th Scanning
Gray Scale	14-18 bit
IC Driver	MB15153
Refresh Rate	>3840Hz
Frame Frequency	60Hz

AC POWER

Source Voltage	100-240V, 50/60Hz
Max Power Consumption	135W
Avg. Power Consumption	90W

ENVIRONMENTAL

Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Operating Humidity	20% to 90% RH

INTERNAL CONNECTIONS

Axion has no external connections
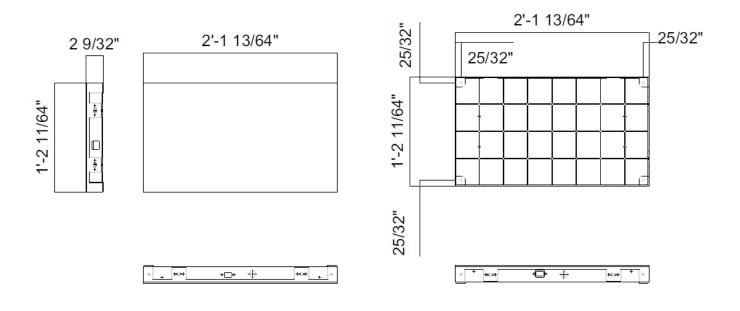100% internal connections inside cabinet

Data in / out	RJ45
AC Power in / out	IEC

Options

- Redundant Power
- Redundant Data
- Anti Noire Mask
- Resin encapsulated LED modules
- DC – DC remote Power Supply
- Low Latency System – Reduce latency from 4 frames to 0.5 frames

	4.2ft	6.3ft	8.4ft	10.5ft	12.6ft	14.7ft	16.8ft
8x8 9.45ft							
7x7 8.28ft							
6x6 7.09ft							
5x5 5.91ft							
4x4 4.72ft							
3x3 3.54ft							
2x2 2.36ft							