

# Product Specifications



## AXION Pro SERIES

Indoor P0.9 Fine Pixel Pitch LED Display

- 16:9 aspect ratio



### Overview

The Axion Series cabinets have a native aspect ratio of 16:9. When 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, P1.25, P1.56, P1.875, P2.5.

Axion is fully front serviceable. There are no external jumpers on the rear, making this cabinet ideal for wall mounting. Axion cabinets are designed for wall mounting and can be recessed into a wall. At only 2.28" deep, the Axion cabinet can be wall mounted to meet ADA requirements. Pre-threaded mounting locations make installation simple. Magnetic LED modules make module replacement quick & easy.

Vanguard LED Displays offer a five (5) year warranty and 5% spare parts.

This product is TAA approved and is suitable for DoD, Federal, State, and Local Agency Simulation Training Simulations as well as Maritime and large aircraft trainers.

### Additional Features

- IC drivers allow for customizable refresh & scan rates.
- Receiving cards allow for custom gray levels from 14-18 bit.
- Redundant power & data are available.
- No internal ribbon cables. There is a single cable-less PCB connection for data & power.
- 90 Degree angle cabinets are an available option.
- Seam brightness compensation is a standard feature.
- High gray scale & refresh rates.
- Resin encapsulated LED modules available for increased durability.
- Half size cabinets are available.
- Smart module data retention.
- Superb color & brightness uniformity.
- DC-DC Remote Power Supply available.
- Low latency available- Reduction from 4 frames to .5 frames.
- Contrast Ratio: 3000:1

# Axion Technical Specifications

## Specifications

### Axion Indoor P0.9

#### LED

<u>LED Type</u>	<u>SMD1010</u>
<u>LED Configuration</u>	<u>3 in one</u>
<u>Pixel Density</u>	<u>1,131,734/m<sup>2</sup></u>
<u>Module Size</u>	<u>11.81" x 6.64"</u>
<u>Module Resolution</u>	<u>320 x 180</u>
<u>Modules Per Cabinet</u>	<u>4</u>
<u>Lifetime to Half Brightness (L50)</u>	<u>100,000</u>
<u>Contrast Ratio</u>	<u>3,000:1</u>
<u>Brightness</u>	<u>600-800Nits</u>
<u>Viewing Angle</u>	<u>160° x 160°</u>
<u>Minimum Viewing Distance</u>	<u>3.2 ft.</u>

#### CABINET

<u>Aspect Ratio</u>	<u>16:9</u>
<u>Cabinet Material</u>	<u>Die Cast Aluminum</u>
<u>Cabinet Size</u>	<u>23.62" x 13.28" x 2.28"</u>
<u>Cabinet Resolution</u>	<u>640 x 360</u>
<u>Cabinet Weight</u>	<u>17 lbs.</u>
<u>Service Access</u>	<u>Front</u>
<u>IP Rating</u>	<u>IP30</u>

#### INTERNAL OPERATION

<u>Driving Method</u>	<u>1/27<sup>th</sup> Scanning</u>
<u>Gray Scale</u>	<u>14-18 bit</u>
<u>IC Driver</u>	<u>MBI5153</u>
<u>Refresh Rate</u>	<u>&gt;3840Hz</u>
<u>Frame Frequency</u>	<u>60Hz</u>

#### AC POWER

<u>Source Voltage</u>	<u>100-240V, 50/60Hz</u>
<u>Max Power Consumption</u>	<u>165W</u>
<u>Avg. Power Consumption</u>	<u>85W</u>

#### ENVIRONMENTAL

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

#### INTERNAL CONNECTIONS

Axion has no external connections  
100% internal connections inside cabinet

<u>Data in / out</u>	<u>RJ45</u>
<u>AC Power in / out</u>	<u>IEC</u>