

# Product Overview



## AXION SERIES

AXION MINI • Indoor P1.25 Fine Pixel Pitch  
8:9 native aspect ratio



### Overview

The Axion Mini P1.25 has an aspect ratio of 8:9. With the exception of the P0.94 which has an aspect ratio of 4:3 all other pixel pitches in the Axion Series cabinets have a 16:9 native aspect ratio. The Axion Mini P1.25 measures 12.6" long and 14.2" high, which offers flexibility where smaller sizing might be useful.

The Axion Series 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 or 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 location 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

- Receiving cards allow for custom gray scale levels from 14-18 bit.
- IC driver specifications allow for customizable refresh & scan rates.
- 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 standard.
- High gray scale & refresh rates.
- Resin impregnated LED modules available for increased durability.
- Half size cabinets available.
- Smart module data retention.
- Superb color & brightness uniformity
- DC-DC Remote Power Supply.
- Low latency available- Reduction from 4 frames to .5 frames.
- Contrast Ratio: 3000:1.

# Axion Technical Specifications

## Axion Indoor P1.2 Mini

### LED

<u>LED Type</u>	<u>SMD0808 Black</u>
<u>LED Configuration</u>	<u>3 in one</u>
<u>Pixel Density</u>	<u>640,000/m<sup>2</sup></u>
<u>Module Size</u>	<u>7.9 x 5.9" x 2.28"</u>
<u>Module Resolution</u>	<u>210 x 160</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>600-800 Nits</u>
<u>Viewing Angle</u>	<u>160° x 160°</u>
<u>Minimum Viewing Distance</u>	<u>4 ft.</u>

### CABINET

<u>Aspect Ratio</u>	<u>8:9</u>
<u>Cabinet Material</u>	<u>Die Cast Aluminum</u>
<u>Cabinet Size</u>	<u>15.75 x 11.81" x 2.91"</u>
<u>Cabinet Resolution</u>	<u>420 x 320</u>
<u>Cabinet Weight</u>	<u>8.15 lbs.</u>
<u>Service Access</u>	<u>Front</u>
<u>IP Rating</u>	<u>IP30</u>

### INTERNAL OPERATION

<u>Driving Method</u>	<u>1/32<sup>th</sup> Scanning</u>
<u>Gray Scale</u>	<u>14-18 bit</u>
<u>IC Driver</u>	<u>MB15153</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>100W</u>
<u>Avg. Power Consumption</u>	<u>50W</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>

