

Product Specifications



AXION SERIES

Indoor P1.33 Fine Pitch LED Display

- 16:9 aspect ratio



Overview Vanguard's 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, P1.33, P1.667, P1.875 and P2.5.

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

- IC drivers allow for customizable refresh & scan rates.
- Receiving cards allow for custom gray scale levels from 14-18 bit.
- Redundant power & data configurations 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 & high refresh rate.
- Resin encapsulated LED modules available for increased durability.
- Half size cabinets available.
- Smart module data retention.
- Superb color & brightness uniformity.
- Refresh rates up to 3840Hz.
- DC-DC Remote Power Supply available.
- Low latency available- Reduction from 4 frames to .5 frames.
- Contrast Ratio: 3000:1

Axion Technical Specifications

Axion Indoor P1.33

LED

<u>LED Type</u>	<u>SMD1010</u>
<u>LED Configuration</u>	<u>3 in one</u>
<u>Pixel Density</u>	<u>591,716/m²</u>
<u>Module Size</u>	<u>6" x 7.1"</u>
<u>Module Resolution</u>	<u>120 x 135</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>4.29 ft.</u>

CABINET

<u>Aspect Ratio</u>	<u>16x9</u>
<u>Cabinet Material</u>	<u>Die Cast Aluminum</u>
<u>Cabinet Size</u>	<u>25.20" x 14.17" x 2.28"</u>
<u>Cabinet Resolution</u>	<u>480 x 270</u>
<u>Modules Per Cabinet</u>	<u>4</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>1/27th Scanning</u>
<u>Gray Scale</u>	<u>14-18 bit</u>
<u>IC Driver</u>	<u>MB15153</u>
<u>Refresh Rate</u>	<u>>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>135W</u>
<u>Avg. Power Consumption</u>	<u>90W</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>

