



## Vanguard LED Displays VISION 2021 Capabilities Statement

Vanguard manufactures leading edge TAA compliant LED video displays and support services to defense, aerospace, simulation, and federal agencies. Matters of National Security are tracked and managed on our videowalls inside the highest level Federal Agencies / DoD Commands in our Nation. Vanguard LED Displays TAA compliance is published in the Federal Register by US Customs & Border Patrol.

Vanguard LED Displays is "FOCI Compliant" for use in Multi-Class domain systems. We are an American owned and based company - there is no Foreign Ownership or Controlling Interest (FOCI). As Americans, we share common values of integrity. Responsiveness, trust, timely communication, and stellar customer service are our core values ensuring flawless execution. Vanguard LED provides expert advice at the outset of a project, timely quotes, the quickest turn-around time in the industry, helpful CAD's and electrical drawings, professional commissioning, proficient on-site training and after sales service that you can count on.

Vanguard LED Displays, as our name implies, is always at the forefront of industry leading new technologies in the LED video display industry. We invented the 16:9 native aspect ratio LED cabinet. Our TAA compliant fine pixel pitch Axion Series was awarded "Best in Show" in the "Fine Pixel Pitch" LED video display category at InfoComm 2018 beating every other fine pixel pitch manufacturer in the world!

Vanguard's TAA compliant HDR Axion II "ChipFlip" Series, a revolutionary new cutting edge technology, featuring the ability to create stable protected resin displays below pixel pitch one (P0.9, P0.7), 4000 nit brightness, unparalleled reliability and durability. Axion II "ChipFlip" Series won "Best in Show" at InfoComm 2020, recognizing this product as the most innovative display technology this year.

Our stout and very affordable, portable TAA compliant Tungsten Series features a protective epoxy resin covering that results in a highly impact resistant LED display. The Tungsten Series features edge protection and super-fast connectors that allow for one (1) person "junior enlisted" installation, making this series an excellent Garrison, Base, or Wing "rental" videowall for Change of Command Ceremonies and Homecoming events.

Vanguard has invented the Terbium Series, a ground-breaking 8.2' diameter LED dome for the simulation industry. Available in P1.25, P1.56 and P1.8 these domes made from contiguous LED panels, create seamless, highly detailed images. Dealing with multiple, finicky projectors vulnerable to ambient light is a thing of the past!

Vanguard provides a five (5) year warranty and 5% spare parts. The vast majority of repairs are undertaken in Lakeland, Florida.

With heightened concern about foreign infiltration of our technical resources and command centers, Vanguard is proud to announce the introduction of our Sentinel processor which is being built in the USA.

Vanguard "walks the walk"! We have over 150 successful installations. We would be proud to furnish references upon request, who will attest to our impeccable customer support, technical expertise, and superior products. Vanguard has hired former military veterans who fully comprehend the needs and structure of the military procurement process. Vanguard is an innovative company that is prepared to invest the time, effort and creativity to develop unique projects in partnership with our clients. This approach sets Vanguard apart from the competition and can be an extremely valuable asset to defense, aerospace and federal agencies.

### Secure & Non-Secure TAA Compliant LED Video Display Solutions

Multi-Classification Collaboration  
Simulation Training Rooms  
NIPR/ SIPR/JWICS networks  
Mission Critical Environments  
Command and Control Systems  
Auditoriums

Large & Multi-Purpose Facilities  
Security Operations Centers  
Emergency Operations Centers  
Network Operations Centers Joint  
Operations Centers Training  
Rooms/Classrooms

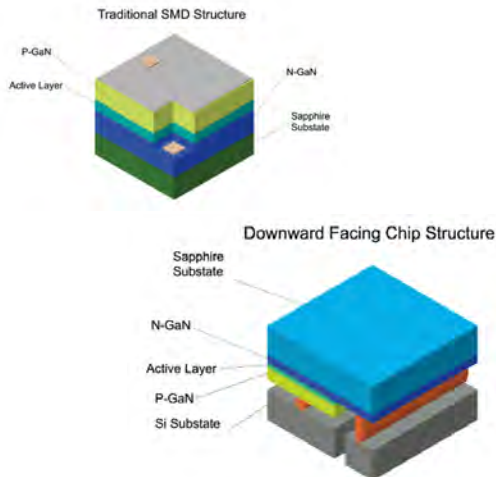
### Contracting

CAGE Code: 87TV0  
DUNS Number: 07-943-4354  
EIN: 46-2548015  
NAICS Codes: 34310, 334419  
339950, 442299, 541330

# VANGUARD LED DISPLAYS



Vanguard's TAA approved Axion Series is the Ultimate TAA Compliant Fine Pixel Pitch Display is available in P0.94, P1.25, P1.33, P1.667, P1.875 and P2.5. It is fully front serviceable and can be either wall mounted, or wall recessed (only 2.28" deep). Magnetic LED modules make module replacement quick & easy. Vanguard Glue-on-Board epoxy resin can be added to the Axion displays creating a surface that is highly impact resistant. This would be useful in confined briefing rooms where soldiers in Web gear can easily brush against and damage an LED display.



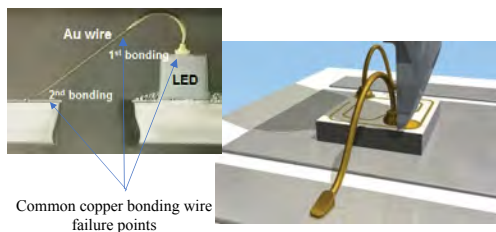
Vanguard's TAA compliant Axion II "ChipFlip" Series, a revolutionary technology encapsulating SMD 1010 LED diodes. Traditional SMD Positive and Negative (Anode) pole Cathodes face upwards. However, the circuit design for "ChipFlip" for both the Positive and Negative electrodes face downward. The corresponding encapsulation is called the "ChipFlip" Process. The strength of the solder used is 100 times stronger and employs Common Cathode technology whereby the electric current passes through the Cathode, the negative pole or the ground. Power is not on continuously but only draws power as needed. As a result, heat generation is greatly reduced. The contrast ratio and color gamut of "ChipFlip", featuring true HDR technology are best in class. **ChipFlip has a failure rate of 5/PPM compared to the failure rate of other SMD displays at 50-100/PPM. Brightness levels can reach 4000 nits. Typically, only outdoor displays can reach those levels.**



Vanguard has invented a ground-breaking solution for the simulation industry. Available in P1.25 and P1.56 made from contiguous LED panels the **Terbiem Series** spheres, with an 8.2' diameter, create seamless, highly detailed images. Customizable Color temperature between 3200-9500K, Superb color & brightness uniformity, with refresh rates of up 3840Hz. Dealing with multiple, finicky projectors vulnerable to ambient light is a thing of the past!



Vanguard Sentinel 4K All In One TAA Compliant LED Video Display Controller - Made in the USA of US and TAA Partner Country parts, the SENTINAL 4K is right at home in Command Centers and Simulation Training Labs where discernible latency is a concern.



Vanguard LED only uses 99.999% pure gold wire in our LED encapsulation processes. Gold is a superior conductor, does not oxidize as quickly copper. Oxidized copper results in sharply reduced electrical and thermal conductivity and therefore reliability. Gold has excellent ductility and as a result will not break even high tension, and is highly reflective of light and produces more lumens (light) than copper.



Vanguard LED Displays, Inc. was awarded "Best of Show three years in a row at InfoComm 2018, 2019, and 2020 for their TAA Compliant Axion and Axion II Series Videowalls, beating ALL other LED and Display Manufacturers!"

