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Advanced LCD Solutions Specialist

NVIS INTEGRATION AND DESIGNS



**MIL STD 3009
DUAL MODE BACKLIGHT
RUGGEDIZATION**

About Us



For over a decade AGDisplays has been a leading provider of high quality LCD enhancement products and services for the industrial markets. We lead the way in offering an extensive range of custom panel solutions that improve standard display attributes while maximizing performance in any environment. The AGDisplays teams are experts in LCDs, from building simple or complex designs to integration work.

In our 124,000 sq. foot facility, we offer over 800 off the shelf products that include tablets, open and closed frame LCDs and much more. Our knowledge in innovative LCD technology and our high-quality control standards separate us from the rest. At AGDisplays, our teams have a true commitment to being your trusted partner.



OUR SERVICES

- Off The Shelf LCD Products
- NVIS Integration and Design
- OCA, Optical & Bonding Services
- Custom LED Integration & Design
- Touch Screen Integration & Design
- Custom Glass Supply Services
- Turnkey & Design Services
- EMI Shielding & Design

- Film Enhancements & Repolarization
- Certificated FAA Part 145 Repair Station
- Component Assembly & Integration
- LCD Controller, Cabling & Design
- Testing/Certification of EOL Panels
- Drop-in Replacement
- Industrial Repair Program
- Zero Dead Pixel Inspection

Industries Served



MILITARY



AVIONICS



HOTEL



MARINE



MARKETING



MEDICAL



RESTAURANT



RETAIL



TRANSPORTATION



Night Vision



We offer two customizable NVIS solutions for TFT-LCDs. Whether you need to be compliant with MIL-STD-3009, or merely compatible with NVG equipment, we offer solutions tailored to accommodate your requirements and your existing LCD unit.

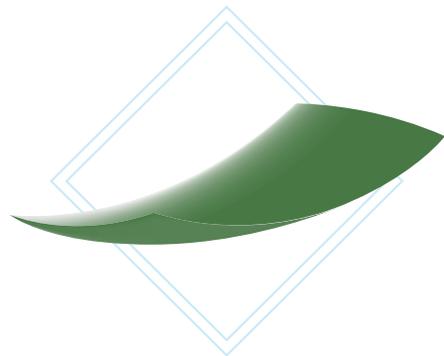
Our dual mode backlighting solution integrates both high bright and class A or B light filters into the panel, providing the option of using the panel in daylight mode, then in night mode with the flip of a switch. Daylight readability is increased with the installation of our Generation 4 high bright LEDs, while night mode is ideal for use with night vision goggles.

We also offer an NVIS filtering material for devices not requiring an active enhancement.



DUAL MODE BACKLIGHTING

Our dual mode solution is for day and night time use; integrated with high bright LEDs and ambient MIL-STD-3009 colors.



FULL FRONT NVIS

A front film filter for devices not requiring a robust or active NVIS solution. Easy to install and quick to remove.

Dual Mode Backlight



AGDisplays designs, develops and manufactures custom Dual Mode Backlighting Solutions for LCDs. The solution is designed to allow excellent readability in high ambient lighting, while also providing a secondary mode in which the panel's illumination is NVIS compliant. We can accommodate any sized display for the dual mode solution.

Integrating AGDisplays' Dual Mode Backlighting System into your panel has exclusive benefits: increased lifespan, lower power consumption, and versatility. Our Dual Mode Backlighting System consists of two backlight sources that operate independently of each other. The first light source is bundled; the second light source is an NVIS compliant light source that can have Class A or B filters. All optical components fall within military standards.



BENEFITS

- Switch from normal to NVIS mode and operate independently as needed
- High bright edge lit LED integration
- Compliance to MIL-STD-3009
- Various optical coatings available, such as AG/AR
- Glass protection from abrasion and spills
- Class A&B filtering options
- Optical bonding

With the installation of our Generation 4 high bright LEDs, panel readability and clarity in ambient light is maximized, as well as enhancing sunlight readability. In night mode, brightness is dropped, and light is filtered to allow compatibility with night vision imaging systems.

AGDisplays' LED backlights are made of durable material, which offer anywhere from 10,000 to 100,000 hours in operation life. The secondary backlight consumes less than one watt of power. The NVIS backlight remains unaffected by extremes in humidity (0% to 100%) and in temperatures ranging from -40° C to 85° C.

The dual mode NVIS compliant backlights are thin, typically 0.068 inches thick (1.7 mm) and can be constructed even thinner if need be. Furthermore, our NVIS-compliant dual mode backlight provides enhanced unit life and reliability, plus a dimming capability ranging from full brightness to zero nits.

Full Front NVIS



AGDisplays offers an NVIS filtering material for devices not requiring an active enhancement. Our polymeric material has been integrated and deployed in numerous military applications and is compliant with MIL-STD-3009 standards.

This solution provides an impressive level of absorption in the near-infrared and stability under solar and temperature exposure, with minimal impact to the visible spectrum. This solution offers a passive installation with safe removal.

EASY INSTALL

Quick to install and easy to remove, AGDisplays provides a passive enhancement that will not cause lasting damage to your unit and is easily removable when no longer needed.

BENEFITS

- Unique polymeric material designed for optical performance
- Specifically designed to work with LED light
- High visible transmission, low radiance
- Available in all MIL-STD-3009 colors
- Range of thicknesses available
- Passive installation
- Safe removal

THANK YOU

Thank You

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COMMUNITY OF EXPERTS

Whether we are met with a new design or challenged with improving an existing design, AGDisplays supports your team by delivering unparalleled LCD expertise and technology. AGDisplays' partners benefit from our efficient design process and our dedication to creating quality design solutions.

We saw the need for off the shelf products, so we've added an expansive line of open/closed frame LCDs, digital signage, and all-in-one products. We offer unique LCD products like advanced touchscreen tabletops, high quality medical displays and rugged mobile devices. All of which can benefit from our value add integration services. Our products are used across many industries including Military, Avionics, Marine, Industrial, Medical, Transportation and many more.



CERTIFICATIONS

AGDisplays values high-quality working and design standards. We support your teams with the knowledge & expertise needed to make strategic design and manufacturing decisions.



CERTIFICATED PART 145
REPAIR STATION



AGDISPLAYS IS
ISO 14001, 45001 & R2
CERTIFIED

CONTACT US

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