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Advanced LCD Solutions Specialist

# AGDISPLAYS SERVICES



**Off the Shelf Displays  
Display Solutions  
Repair Services  
Turnkey and Design**

# Our Services



## TOUCHSCREEN INTEGRATION

AGDisplays designs compatible solutions for existing LCD designs or we may provide a new unit that is touch compatible. Many LCD panels are not equipped with a touch sensor. AGDisplays turns customer LCDs into touchscreens with the quick integration of a compatible touch sensor. We also perform repairs, replaces or enhances touchscreen technology. Product application plays a major role in the type of technology needed, and each touchscreen technology has pros and cons, depending on the application's environment. It is important to work with the AGDisplays design teams to ensure the best touchscreen match as well as safe and secure touch sensor integration.

## COVERGLASS SOLUTIONS

AGDisplays' cover glass design and integration service for customers looking to improve optical clarity as well as increase LCD strength. We offer different material substrates that each provide unique benefits to your LCD. On top of cover glass solutions, we offer to integrate a variety of optical coating solutions with the cover glass for added benefit and performance. A cover glass substrate is integrated with a specific bonding method: OCA, optical or tape bond. Each bonding method has exclusive specifications. Depending on environment and application, an LCD will benefit from one of these methods. To learn more about bonding, visit the AGDisplays website.



## FILM ENHANCEMENTS

Passive enhancement process requires no changes in neither electronic components nor additional wattage consumption. These solutions may include a number of light management materials (reflective polarizers, efficient light pipes, light reflectors, etc.). Our enhancements are suitable for industrial and defense applications. AGDisplays LCD enhancement solutions are capable of brightening your display without increasing power. Film integration also increase display contrast and readability. Many of our films prevent scratch and display contamination. Talk to an AGDisplays representative to discuss the wide selection of film integration solutions we offer.

## EMI SHIELDING

AGD's EMI Shielding Integration service is for customers who need to block electronic interference between their LCD and the equipment that may negatively affect it. EMI shielding provides "immunity" for electronic components that are susceptible to EMI interference. Typical EMI shielding integrations involve installing a metal box to protect the vulnerable unit. We offer alternative integration solutions. AGDisplays has several mesh and film solutions that allow for a passive LCD installation that will not intrude on electrical components or power consumption. Our film solutions allow optimum optical performance while providing a high level of protection.



# Key Expertise



## HIGH BRIGHT INTEGRATION

If you find your screen is dull and colorless, upgrading to high powered LEDs will breathe new life into your unit, allowing for a vibrant and long-lasting display. AGDisplays provides advanced high bright (1000+ nits) LED rails with high-output, low consuming to enhance display color and contrast; maximize efficiency and lifetime of your panel by upgrading to a stable design including high bright LED rails and a constant current LED controller. Design flexibility allows for edge lit design or direct backlight array options. Our Generation 4 LED rails provide high bright solutions while keeping a low environmental footprint. With small, powerful LEDs, our LEDs boast added protection with low power consumption.

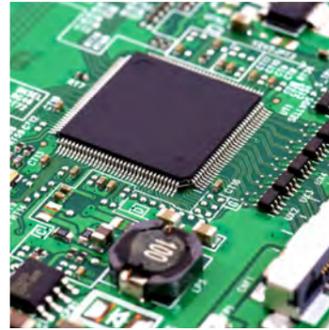


## NVIS DESIGN & INTEGRATION

We offer two customizable NVIS solutions for TFT-LCDs. Whether the need to be compliant to 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 involves integrating both high bright and class A or B light filters into the panel. This provides the option of using the panel in daylight mode and in night mode. 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 looking for an active enhancement. Consult with AGD experts to find which solution best fits your needs.



# Our Services



## CUSTOM LED & CONTROLLERS

While upgrading to high powered LEDs will provide a vibrant display, LED rails will require compatible LED controllers for stable power and a long-lasting unit. AGDisplays manufactures our own line of LED controllers that work safely with our LED rails and integrate into virtually any OEM LCD. Pairing AGD's controllers with LED rails provides a small environmental footprint as well as an increase in overall backlighting lifespan. We assure controllers are integrated safely and with maximum brightness output. AGDisplays' LED controller provide a safe way to power your LED backlighting system.

## DROP IN REPLACEMENT

We provide an alternative panel with same specifications to replace the panel in your equipment. These products are matched for compatible integration without compromising quality. We offer a steady product demand for when it's critical to have a continuity of supply. AGD's has a secure list of trusted vendors with whom we maintain current business practices. Our International Procurement Office in China verifies resources and quality of the companies we do business with.



## TURNKEY & DESIGN

Turnkey LCD solutions involve organizing a customer's overall project and selling a complete solution. A design on the customer's end can simply be providing us with LCD requirements while AGDisplays provides a suitable solution. Development team works closely with each client, from simple designs to complex projects.

This service includes any of AGDisplays' solutions in accordance with customer specifications. Services may include design/engineering support, subcontracting, first article approval, procurement & expediting of materials, performance guarantee testing, quality functionality testing and more.

## INTEGRATION AND ASSEMBLY

AGDisplays offers a one stop shop solution for companies who are looking to design, build and/or source an LCD design and its components. We work together with customers to design a safe LCD assembly for their equipment in need. Safe assembly means a configuration that will provide an LCD unit that will not quickly burn out, interfere with other equipment and that will meet customer specifications.

Assemblies can be built around new LCD designs or even existing designs that have added performance needs. AGDisplays kits units and components together for optimal performance; optionally, AGDisplays will perform integration of components with the display units.



# Key Expertise



## BONDING SERVICES

In performing a bonding procedure on your LCD, your display is guaranteed to be more rugged and less prone to environmental vulnerabilities like dust collection and moisture condensation. AGDisplays offers three different methods of bonding for your LCD to add strength and clarity. Our bonding service also works as an integration method when incorporating one of our other value add services. We offer a robust optical bonding service, an OCA bond for special projects, or a cost efficient tape bonding service.

Bonding methods are performed in one of AGDisplays' Class 1000 clean rooms to prevent any chance of contamination particles to interfere with the manufacturing process. Our optical bonding method is performed in-house by a skilled technician on any sized LCD. Each LCD is carefully handled throughout the technical process. Quality assurance measures and testing are performed on each LCD to guarantee your specifications are met.



**Optical Bond**

Optical bonding creates superior LCD strength, prevents screen shattering; LCD is less vulnerable to contamination and moisture.



**OCA Bond**

OCA bonding is thin, making it an ideal choice for small LCD frames. Our OCA adhesives are precisely adjusted to fit LCD panels 12" or smaller.



**Tape Bond**

Our tape bond services provide a secure bond that increases productivity, long-term durability and improved appearance.

# Our Services



## COMPLEX INDUSTRIAL REPAIRS

Industrial repair utilizes all facets of AGDisplays capabilities. We repair most aspects of LCD technologies so that our customers do not have to replace whole units for minor repairs. AGDisplays also provides repair warranty services for panels that are no longer under OEM warranty. Our repair service aims to meet or exceed your already existing data specification. We aim to extend the life of your product, to keep maintenance costs down and to work efficiently, all while working above a standard you are used to seeing with large corporations. What's more, our team has 40+ years of collaborative LCD repair experience to ensure your designs are handled properly.

## CUSTOM SCREEN PRINT & DESIGN

Combining custom glass substrates with a printed logo or custom graphic on your units lets users know your name and/or gives your unit a modern and professional look. AGDisplays offers this screen print and custom glass service to provide a durable and long-lasting solution. We also offer various ink options for logo/graphic customizations. Inks are available in multiple colors and range from low temperature epoxies to high temperature inks. For increased efficiency and design, AGDisplays recommends adding touchscreen capabilities for a robust but cost-effective performance upgrade. Add a hardened glass & touchscreen configuration for increased strength and display performance from standard display to fast and intuitive usability.

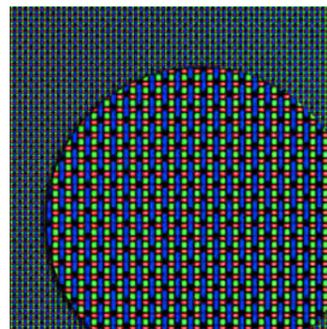


## LIFECYCLE MANAGEMENT

AGDisplays works together with your teams to support your product's life from the conception to disposal. Product lifecycle management is the process of taking your product from inception, to design, to manufacturing, to repair/service and then finally to disposal. At the end of a product's lifecycle, we can provide EOL display and component alternatives to extend your product's lifespan. As broken components on your panel go EOL, AGDisplays provides a quick and hassle-free source for new or alternative components. We follow strict supply chain practices and well-maintained databases that lead to ultimate quality and customer satisfaction. Moreover, we use test sample orders and validate supply chain offerings prior to large order placement.

## ZERO PIXEL INTEGRATION

AGDisplays uses a meticulous objective visual verification process to ensure your quality standards are met and that LCD pixel defects are not present in your products. We receive panels from the OEM before they reach the customer and we verify that your zero-pixel specifications are being met. If the panel fails OEM specification grade, we perform an exchange for panels that are standard or above standard for your industry. We inspect panels for hot, stuck dead pixel and evaluate LCD quality standards. We confirm and document our findings for verification purposes. AGDisplays employs a comprehensive training program so your units are in the hands of Technicians who expertly handle units like yours every day.



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 including ruggedization.

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 becoming your trusted partner.



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