



220 Huff Ave, Suite 400
Greensburg, PA 15601



PH: (724) 552-4904
F: (724) 552-4905



sales@agdisplays.com
agdisplays.com



Advanced LCD Solutions Specialist

CUSTOM LED INTEGRATION



1000+ CD/M²
RETROFIT GEN4 LED
LOW FOOTPRINT

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.

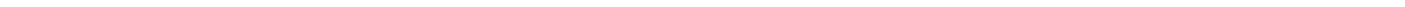
In our 124,000 sq. foot facility, we offer over 800 off the shelf products that include tablets, open and closed frame LCDs and much more. Our knowledge in innovative LCD technology and our high-quality control standards separate us from the rest. At AGDisplays, our teams have a true commitment to being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



High Bright Integration



AGDisplays provides LED backlight solutions that are customized to your requirements, with flexible brightness and design customization. We expertly utilize dynamic color mixing and color sequencing capabilities.



AGDisplays are considered pioneers in high bright LED technology. We carry our own line of High Bright LED rails that we continue to advance as the industry changes. We offer custom-sized LED backlight solutions that we design and tailor to custom-fit your exact needs.

The AGDisplays design team works expertly with your specifications to integrate LED designs without compromising quality and readability. Our dependable component selections make the LED backlights and controllers offered by AGDisplays some of the most reliable in the industry.

BENEFITS

- High sunlight readability
- NVIS-compatible options
- High color gamut achievable
- Lower EMI output and better EMI resistance
- Improved shock and vibration
- Extended lifespan: 10,000-100,000 hours
- Durable in extreme hot and frigid cold
- Protection against extreme humidity
- Low power consumption & high brightness output
- Environmentally safe: LEDs are ROHS-compliant, mercury- & lead-free, reduced EMI emissions
- Smaller LEDs for a slim and light design
- Custom-manufactured LED controllers

High Bright Integration

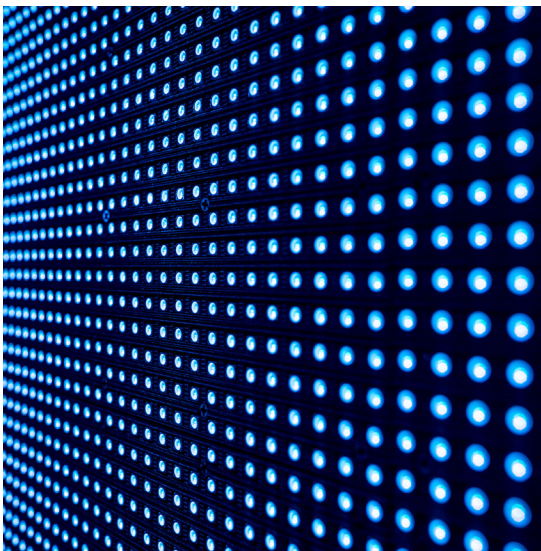


LED backlighting is typically designed as edge-lit or in a direct backlighting arrangement. Both designs have the LEDs concentrated into a diffuser source (light guide of the display) distributing the light uniformly throughout the viewing area.



EDGE-LIT BACKLIGHTING

With an edge-lit backlight design, LEDs are aligned along edge of the internal light guide of the LCD. The backlight array may be mounted on one, two, or all four edges, depending on the size of the display and the amount of luminance required. With this design, light from the LEDs is captured and spread across the viewing area by way of the light guide. Benefits of this design include a slimmer profile and lower cost of LEDs. This design is easily designed into any sized LCD, and is a great option for thin applications. ACDisplays uses our low footprint Generation 4 high bright LEDs in this and our direct backlight design.



DIRECT BACKLIGHTING

In a direct backlighting arrangement, LEDs are placed in a flat array behind the light guide and the diffuser plate. Direct backlighting works as a uniform source of light, like most CCFLs. One of the pros of integrating a direct backlight arrangement is that it allows for local-dimming, which means the display is able to dim specific areas to create vivid images, drastically increase the apparent contrast ratio, provide precise color adjustment and enhance overall viewing quality. Blacks are true black and grays are more defined.

