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CUSTOM LED INTEGRATION



About Us

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For over a decade ACDisplays 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 ACDisplays 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 Class 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

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MILITARY



AVIONICS



HOTEL



MARINE



MARKETING



MEDICAL



RESTAURANT



RETAIL



TRANSPORTATION



High Bright Integration

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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 ACDisplays 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 ACDisplays 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

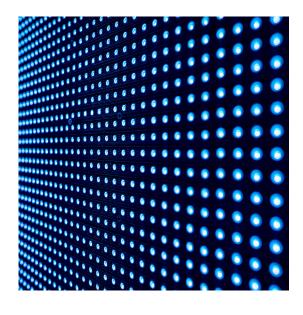
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LED backlighting is typically designed as edge-lit or in a direct backlighting arrangement. Both designs have the LEDs concentrated into a diffuser source (light guide of the display) distributing the light uniformly throughout the viewing area.



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 Ceneration 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.

Thank You

COMMUNITY OF EXPERTS

Whether we are met with a new design or challenged with improving an existing design, ACDisplays supports your team by delivering unparalleled LCD expertise and technology. ACDisplays' 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-inone 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

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









AGDISPLAYS IS ISO 14001, 45001 & R2 CERTIFIED

CONTACT US

HEADQUARTERS

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