



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

CONSTRUCTION SOLUTIONS



**RUGGED MOBILE
OFF THE SHELF DISPLAYS
TURNKEY & DESIGN**

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.

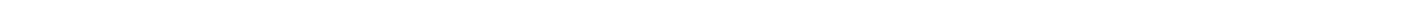
In our 124,000 sq. foot facility, we offer over 800 off the shelf products that include tablets, open and closed frame LCDs and much more. Our knowledge in innovative LCD technology and our high-quality control standards separate us from the rest. At AGDisplays, our teams have a true commitment to being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



Construction



Reliable equipment in the Construction Industry is often critical to avoid delays, damage or worker injury. AGDisplays offers durable rugged panels and mobile devices that are built to endure shock and vibration while on the job.

Rugged panels are available for custom design integrations. Our experts support your design project from inception to production.

Our line of rugged mobile devices can increase productivity, accuracy and to eliminate downtime. Rugged devices feature IP ratings and flexible OS options.

All design solutions are dependent on individual applications and lead to a completely unique technical solution to fulfill customer requirements.

Our team can help you acquire new, EOL or refurbished LCDs, and can customize virtually any panel to meet your specific requirements. From a simple spec enhancement to full solution kitting, AGDisplays handles LCD sourcing, logistics, assembly and repair—all in one place.



RUGGED MOBILE

These devices meet military standards for shock & vibration, limited water submersion and dust ingress.

TABLETS

AGDisplays makes commercial off the shelf tablets easy to purchase with flexible spec options and easy purchasing.

TOUCH DISPLAYS

Our touch panels are eligible for performance upgrades like ruggedization, optical bonds and EMI protection.

LCD DISPLAYS

Our LCD design solutions maximize standard LCD performance in any environment.

PANEL MOUNT DISPLAYS

Panel mount displays are designed for industrial environments and can be outfitted to meet specific requirements.

TOUCHSCREEN INTEGRATION

We offer popular technologies like projected capacitive, resistive, surface capacitive, IR, and SAW touch sensors.

EMI SHIELDING & DESIGN

Block electronic interference between LCDs & surrounding equipment with EMI solutions.

TURNKEY & DESIGN

Work with our team to create turnkey solutions on new or existing designs.

INDUSTRIAL REPAIRS

Reduce costs by repairing LCD components with full outgoing diagnostic analyses on all units.

List of Products



RUGGED MOBILE

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TOUCH DISPLAYS

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LCD DISPLAYS

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MEDICAL DISPLAYS

Our LCDs support medical applications with long life cycles, high bright display readability and sharp contrast.



MARINE DISPLAYS

Marine displays can be IP rated and are designed specifically for use in all marine/boating applications.



DIGITAL SIGNAGE

Digital signage offers fast on-sight installation and easy access for maintenance & repairs.



PANEL MOUNT DISPLAYS

Panel mount displays are designed for industrial environments and can be outfitted to meet specific requirements.



TOUCH TABLES

Hold meetings and communicate business messages with superior and sensitive touch table technology.



MULTIMEDIA KIOSKS

AGDisplays offers a wide range of multimedia kiosks to effectively reach your customer.



SPECIALTY DISPLAYS

Bring interaction, creativity and technology together with 3D displays, all in ones and interactive whiteboards.



VIDEO WALLS

With narrow bezels for a seamless feel, users are captivated by the media displayed on our video walls.



Touch Integration



Touchscreen technologies are not all created equal. In fact, their structures and features differ widely from technology to technology. From the simple touchscreen on a home printer, to the quick touchscreen experience of the latest smartphone. With ACDisplays, you're not the end user, you are the creator. With so many sizes, technologies and specifications floating about, it's impossible to just select one from the masses without being informed first.

SURFACE ACOUSTIC WAVE

FEATURES

- High Transmission
- Durable glass construction
- Pressure sensitive
- Advanced technology

END USER BENEFITS

- High optical clarity
- Rugged in indoor environments
- Activated with stylus, glove or fingernail

INDUSTRIES

- Medical
- Touchscreen Kiosks
- Indoor Retail Environments

Touch Integration



RESISTIVE

FEATURES

- Low light transmission at 75%
- Activation with any object
- Protective substrate on top of glass layer
- Able to be assembled from component parts, screen and sensors

END USER BENEFITS

- No glass shattering
- Works in rain or other liquids
- Good functionality in hot or cold weather
- Input is acceptable with any stimulus: finger, pen, gloved fingers, stylus, and anything else

INDUSTRIES/APPLICATIONS

- Marine
- Commercial
- Food and beverage

PROJECTIVE CAPACITIVE

FEATURES

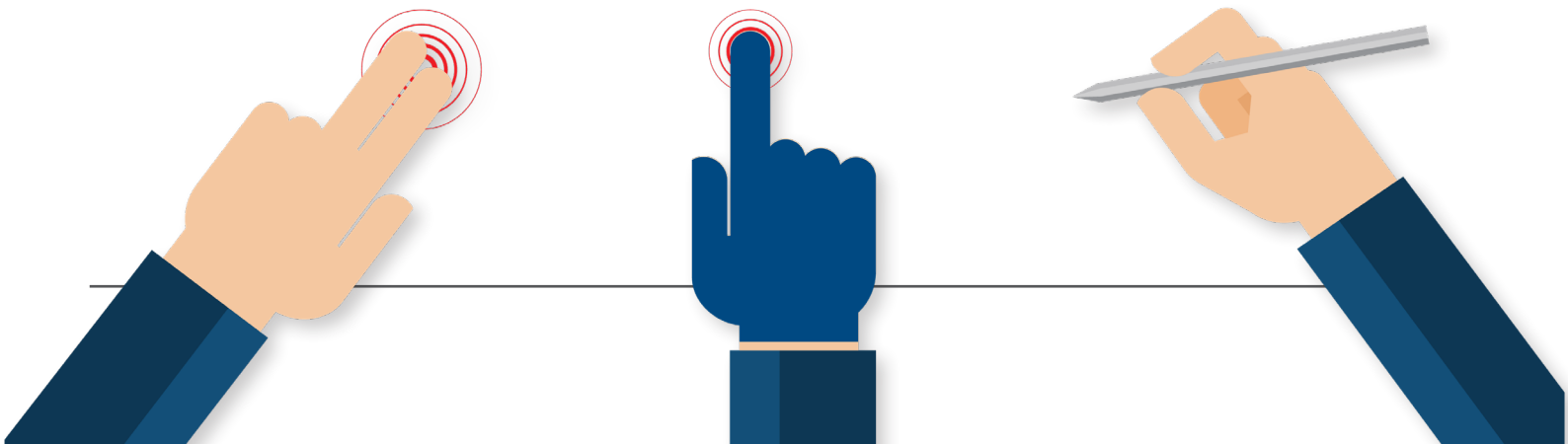
- Integration with various cover lens options: standard, tempered, chemically-strengthened glass
- Single, dual or multi-touch
- High light transmission, in excess of 90%

END USER BENEFITS

- Superior image clarity
- High durability in rough environments
- Flexible touch points
- High transmissivity
- Input triggered by bare hands, latex gloves and stylus

INDUSTRIES/APPLICATIONS

- Retail
- Gaming
- Digital Signage



Touch Integration



SURFACE CAPACITIVE

FEATURES

- Fast, sensitive touch response
- Glass layer for ruggedization
- Protective cover

END USER BENEFITS

- Good image clarity
- Highly scratch resistant
- Fingertip or stylus activation
- Durable in rough environments
- Resistance to contaminants and liquids

INDUSTRIES/APPLICATIONS

- Gaming
- Entertainment
- Point of Sale
- Kiosks

INFRARED

FEATURES

- High light transmission
- No glass substrate
- Light beam touch technology
- Scratch resistant

END USER BENEFITS

- Unlimited touch life
- Durable lifetime
- Superior image quality
- Finger and glove touch activation

INDUSTRIES/APPLICATIONS

- Retail
- Hospitality
- Large Display Applications



EMI Shielding



EMI film provides the “immunity” for electronic components that are susceptible to EMI (electromagnetic interference). Our solution options offer maximized optical performance and makes display/touch screen RFI compliant.

EMI film or mesh solutions integrate quick and easy, requiring no redesign and allowing for fast production. Our service installs new EMI shielding, or replaces existing EMI system. While our transparent film and mesh solutions are our most popular solutions, AGDisplays also offers other EMI options to meet your design requirements.

Transparent thin-film conductive coatings provide LCD technology with great optical and EMI shielding properties. Typically the frequency level ranges in 100 kHz - 20 GHz. Films may be offered with conductivity ranging from 1 to 100 Ω /sq.

Conductive grid mesh solutions provide panels with a high level of protection. A fine-conductive grid may be built of woven stainless-steel or copper mesh, or alternatively made with a patterned conductive metal coating on the substrate's surface.

EMI MESH SOLUTIONS

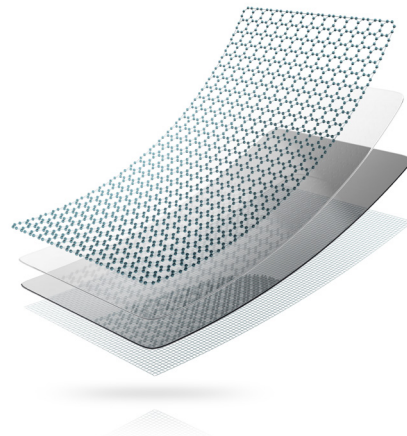
- Woven wire mesh
- Robust active enhancement, providing high level of protection
- Compatible for use with a touch sensor
- Photopic transmission at $\geq 85\%$
- Diffuse reflectance at 30° at $\leq 0.14\%$
- Specular reflectance at 30° at $\leq 1.2\%$
- $\leq 0.25 \Omega$ /sq. surface resistance
- Shielding effectiveness:
 - 50 Mhz (megahertz): ~ 75 dB
 - 100 Mhz: ~ 65 dB

EMI FILM SOLUTIONS

- For panels needing low attenuation (10-20 dB)
- Cost effective solution, passive enhancement
- Compatible for use with a touch sensor
- High visible transmission with low electrical resistance:
 - 10 ohms/sq.
 - 20 ohms/sq.
- Reduces problematic EMI and/or IR emissions from surface
- Superior to ITO films at low resistance for transparency & mechanical properties

BENEFITS

- Passive Integration Solution
- Compatible with Touch Sensors
- High Visible Transmission
- Reduces EMI/IR Surface Emissions
- Superior to ITO Films
- Several Custom Design Options



Assembly & Integration



AGDisplays offers Component Assembly and Integration services to provide LCD display options and peripherals, custom-designed to your needs. Your design components are sourced by AGDisplays, and carefully integrated in our US-based facility, providing you a true one-stop-shop for LCD solutions.



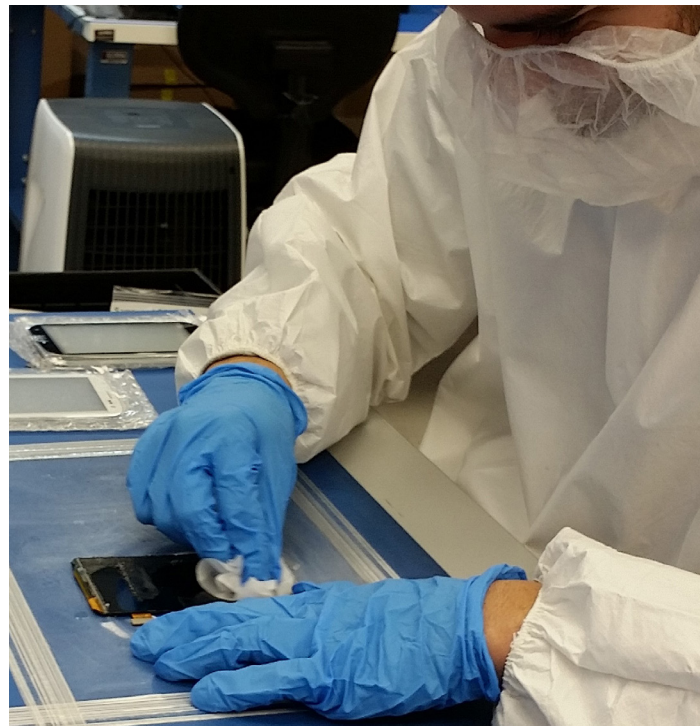
AGDisplays offers a wide selection of TFT-LCD displays and touch sensors. We source and support virtually all components such as controller boards, LED lighting systems and touchscreen sensors. If needed, value adds and custom solutions are available for upgrades.

By assembling LCD solutions in house, our US-based location lends itself to high flexibility in the production and manufacturing environment, helping us meet ever-changing specifications and deadlines.

If your design is already complete, AGDisplays will source and integrate components according to your specifications. Using our multiple layered procurement strategies, AGDisplays may source your components for cost-reduction, all while holding quality standards as priority.

BENEFITS

- ✓ **One point of customer support for order modifications or concerns that may arise.**
- ✓ **Full customization of display and performance features, including additional enhancements.**
- ✓ **Ordering process is simplified to only one point of contact and one completed shipment.**
- ✓ **Consistent and thorough documentation system to ensure accuracy and traceability.**
- ✓ **If quality or supply is disrupted, we manage compatibility and ensure top quality parts.**



Assembly & Integration

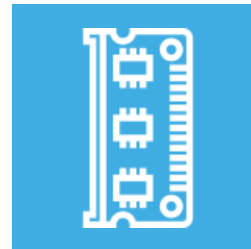


AGDisplays offers two variations of our assembly and integration service: project assembly/integration and project kitting. While we provide a virtually unlimited supply and range of display and component products, AGDisplays also offers LCD enhancements that are aimed to increase durability and functionality of your LCD panel in its operational environment.



ASSEMBLY AND INTEGRATION

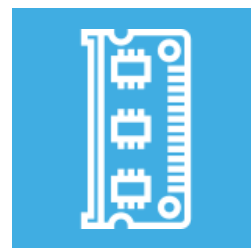
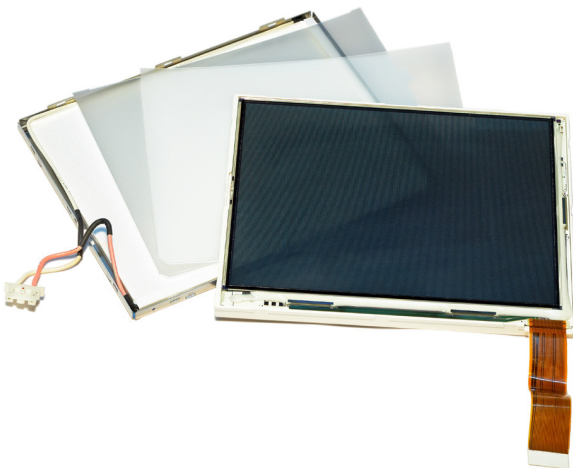
In a custom assembly build, components are added or modified to meet project specifications. An example of such an enhancement could be an added touch sensor, creating a touch-enabled LCD. The sensor would be integrated into the display component, and the customer would receive a completed project, the enhanced display with compatible touch controllers.



LCD KITTING

AGDisplays pairs and offers kits to customers so they can save on assembly costs. A kit may consist of a main display, a touch sensor, a controller, and cable sets.

Customers may order the kit according to a known or unknown LCD part number and the needs of their project.



Industrial Repair



AGDisplays repairs most components on an LCD, so our customers don't have to replace whole units for minor repairs. Over years of finely-tuning our in-house manufacturing processes, we provide a smooth transition from modification, to inspection, to shipping. All repairs are performed at our US-based headquarters in Greensburg, PA.

AGDisplays is focused on refurbishing and repairing your LCDs; we specialize in providing cost-effective alternatives to LCD replacements. Located in Greensburg, Pennsylvania, our 124,000 square foot facility utilizes our multiple production lines and class 1,000+ clean rooms to perform precise modification and improvement procedures. For quality assurance measures, we perform a full diagnostic analysis for each repaired unit before sending restored LCDs back to customers.

With 40+ years of experience, AGDisplays trains our individuals through a stringent curriculum in which we evaluate regularly. If your unit has gone end of life (EOL), AGDisplays offers you access to our list of trusted LCD distributors. We also provide repair warranty services for panels that are no longer under OEM warranty.



BENEFITS

- ✓ **Access our line of trusted LCD distributors. Distributors are audited for quality assurance.**
- ✓ **Keep maintenance costs down without compromising quality of units.**
- ✓ **Access end of life (EOL) panels that are out of reach for others.**
- ✓ **Warranty program for products that are no longer under OEM warranty.**
- ✓ **Competitive and flexible pricing, including value add upgrades**
- ✓ **Full diagnostic analysis performed on each repaired unit**

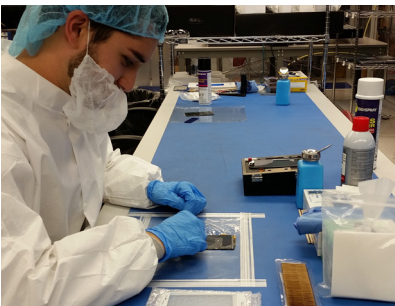
Thank You



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. AGD 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 are eligible for 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 the strategic design and manufacturing decisions.



CERTIFICATED PART 145
REPAIR STATION



AGDISPLAYS IS
ISO 14001, 45001 & R2
CERTIFIED

CONTACT US

HEADQUARTERS

AGDisplays, a dba of AssetGenie, Inc.
220 Huff Ave, Suite 400
Greensburg, PA 15601

CONTACT BY PHONE

Toll Free: 844-841-6851
Office: 724-552-4904
Fax: 724-552-4905

CONTACT BY EMAIL

sales@agdisplays.com
info@agdisplays.com
support@agdisplays.com

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