Who we are

A global industry leader in providing rugged electronics that offers displays, computers and other ruggedized electronics for the defense, marine, industrial and air traffic control markets.

BY THE NUMBERS*

$25 million in sales
15,000 units shipped
48 new products launched
118 units upgraded

*June 2016-July 2017
History

- **1967**: Founded as Aydin Corporation
- **1998**: Acquired by Video Display Corporation
- **2013**: Acquired by Sparton Corporation
- **2015**: Acquired IED (Industrial Electronic Devices) and KEP Marine
50 years designing and developing military and industrial displays
Almost 100 employees, which includes electrical, mechanical and optical engineers.
48 combined years of in-house lamination experience.

**OUR FACILITY**
- Manufacturing Facility (42,000 sq. ft)
- Clean Room Facility (2,500 sq. ft.)
Our Customers

We support a wide array of B2B customers, from governments, all branches of the military, prime contractors, global Fortune 500, universities, VARS and integrators. We adapt our offering based on the various industries we support.

We combine the ingredients through our most important assets — our people. We have a talented team of dedicated professionals that embody excellence and teamwork. Driven to succeed, our employees have diverse expertise and backgrounds across many disciplines with the focus on our customers.
What makes us different

PRODUCT DEVELOPMENT

- Full engineering resources dedicated to customizing products to meet the most demanding and rigorous requirements.
- One-stop shop with regards to designing, developing, manufacturing, selling and supporting our entire product line.
- All products endure a strict configuration control system to ensure consistency and accountability to customers.
- We also have a wide range of standard products.

- Products are available in sizes 6.4” up to 65”.
What makes us different

CUSTOMER SERVICE FOCUS

- 93% customer satisfaction rate with constant striving for perfection.
- Application specialists available online and by phone to address requirements, provide recommendations or supply quotes.
- They also can present production costs and timelines to ensure your project is completed within budget and on time.

- Easily contact our support team with product issues. They can help identify problems and provide solutions.
Markets

4 KEY MARKET SECTORS

- Defense & Government: 75%
- Marine: 12%
- Industrial: 10%
- Air Traffic Control: 3%

Who we are
The Aydin brand provides products that perform and succeed in the most severe military situations — on land, in the air and on water.

Our Commercial-off-the-shelf (COTS) Military Series offers a range of flat panel displays specifically designed for the COTS military market place. These lightweight, power efficient and MIL-spec durable displays range from 10” to 65”.
Who we are

Defense & Government

Our products are designed for:

GROUND  SEA  AIR
Aydin Displays is the exclusive supplier of behind-the-cockpit displays to BAE and Boeing for the 117 P8A aircraft.

Key Products

P8A

- 24” color active matrix LCD
- 1920 x 1200 resolution
- Convenient front controls
- Meets military standards
- Standard anti-reflective protective window
The 8819-9U features six different custom configuration options to ensure your application needs are met.
Key Products

4419P1-SD

19” Rugged COTS Smart Display for Defense Applications

- Convenient front controls and audio speaker
- MIL-Spec ratings for shock, vibration, drip, fungus & EMI
- Wide dimming range and viewing angle
Navigating marine conditions requires more than waterproof equipment. These settings demand industrial-grade LCD marine displays with direct sunlight readability — and innovative bridge integration.

Our marine displays, sealed PCs and bridge integration technology are designed for high performance to withstand the harshest conditions.
Key Products

AMGB Series
15”, 17”, 19” & 24” Marine monitors
- Sunlight readable
- Wide viewing angle
- 3 DVI, 2 VGA, 3 composite standard inputs
Key Products

AMPC-70-0001
Mini PC with expansion slot

- No noise, rugged fanless chassis
- Powerful Intel Celeron Dual-Core 1020E Mobile Processor
- 12VDC operation, ideal for mobile/field
Key Products

E50 Series

1P68 waterproof trackball & scroll wheel

- Compliant with IEC60945
- Fully waterproof
- Infra-red optical navigation technology
- Removable ball for easy cleaning

YOU NEED IT, WE SUPPLY IT

Aydin Displays is the exclusive distributor for North and South America of NSI products. We offer full line-up of industrial trackballs and keyboards.
Factories and field equipment require rugged electronics that last and can stand up to environmental hazards. Displays have a variety of mounting styles for your specific operation.
Key Products

AI Wide Series

Panel Mount Display

- Changeable front panel design
- Easy to service and maintain in the field
- VGA/HDMI/DVI input support
- Projected capacitive touch screen with front IP65 sealing design
Key Products

0171010
Orlaco FAMOS Camera

- Shock and vibration-proof
- 100% waterproof
- Hard coated lens to prevent scratches
- Heated lens glass provides best possible image in all weather conditions

YOU’VE COME TO THE RIGHT PLACE
Aydin Displays is the exclusive distributor for North and South America of Orlaco Industrial Rugged Cameras.
Durable displays with exceptional optical performance — brightness, contrast and color — are mission critical for air traffic control.

Long life cycle, image fidelity and compliance are at the forefront of our design. We also support equipment transition, with products that replace CRT-based monitors and sizes and resolutions to accommodate future systems.

THE AYDIN ADVANTAGE

Aydin Displays is one of only two companies in the world to receive an FAA certification.
Key Products

CFP21W2

VESA Mount Sunlight Readable Display
- Wide viewing angle
- Deep dimming
- Auto ranging AC power supply
- Rugged construction
Key Products

60281
2K x 2K ATC Display

- 2048 x 2048 resolution
- LED backlight
- Fan-less & eco-friendly
- Low power consumption
Our state-of-the-art facility is equipped with the following areas designated for:

- Optical lamination
- LCD & touch screen enhancements
- Warranty service and repairs
- ECDIS calibration lab
- Dry bonding/autoclave services

ALWAYS IMPROVING

Aydin Displays continues to invest in new equipment and improvements to meeting your changing needs.
Dry Bonding  
We specialize in lamination enhancements for industrial, defense, and marine LCD displays.

Industrial Autoclave  
When your components need enhanced lamination and curing, our autoclave system is ideal for complex shapes and materials – which need to be treated under elevated heat and pressure.

ECDIS  
As of 2012 most marine vessels require an ECDIS equipped vessel – make sure you aren’t left behind. We are one of the few available providers of ECDIS display calibration and characterization.

Hardware Customization  
Stealth and Aydin are industry leaders in building the (im)possible. We’ve worked with aerospace, marine, military, industrial, and educational requirements. There is no challenge we aren’t willing to take on.
Dry Bonding
Dry Bonding

WHY DRY BOND?
We create a bond between the cover glass and a screen (LCD or non-digital) using an optically clear polymer sheet. This process is performed in a vacuum chamber and yields void-free lamination results.

BENEFITS
- Stable up to an altitude of 55,000 feet (tested)
- Cost effective
- Faster turnaround time
- Process can be reworked
- Excellent resistance to vibration/shock
NON-BONDED
In a non-bonded LCD display, there is an air gap between the cover glass and the LCD panel.

DRY BONDED
Three layers are pressed together creating a ruggedized display with void-free results. It also helps protect the display from dust and moisture. When the layers are pressed together in the dry bond vacuum chamber, the polymer layer fills the space between the cover glass and the LCD panel removing the air between the layers.
Dry bonding improves optical clarity and reduces reflection by about 8%, making it ideal for outdoor applications.
Who we are

Industrial Autoclave
WHAT IS AUTOCLAVING?
Industrial autoclaving is an advanced process for enhancing lamination. Dry heat and pressure are introduced to the product layers, creating a strong seal. Minute air bubbles that exist in pre-autoclaved layers, are placed in the autoclave chamber, and via the autoclave process the bubbles are removed – resulting in a product to performs as intended in extreme conditions.
If the layers of a product have been bonded, air bubbles, may still be present. This is where an autoclave can be especially useful.

1) Once a product is placed in the autoclave, the chamber is then locked. Elevated pressure and heat are introduced into the chamber.

2) After the heat and pressure have been equally dispersed, any remaining air bubbles are released into the chamber.

3) When the process is complete, the layers of product become one. A forever bond has now been created.
WHY YOU NEED ECDIS
In 2012, new laws were passed that made the use of ECDIS (Electronic Chart Display and Information System) mandatory for many vessels.

THE AYDIN ADVANTAGE
Aydin is one of the very few companies that can help you obtain type-approval by supplying you with displays that are ECDIS compliant.
ADVANTAGES & BENEFITS

- Makes the voyage planning easier.
- Modifications are made by a simple drag and drop action.
- The system takes the ship’s draft into consideration when planning the route.
- Chart management and updating is easier.
- Needed charts can be bought online, making the system fast and reliable.

- ECDIS systems can operate private charts.
- ECDIS monitors the data received from the many navigation data sensors connected to the ECDIS, and validates the data.

*Colors not exact
Optical Enhancements

Aydin performs many optical enhancements to standard AMLCD panels.

- Sunlight readability
- Passive enhancements for high contrast ratio
- LED backlight installation
- Night Vision Compatibility
- AMLCD heaters for low temperature operation (-40°C)
- Low storage temperature (-55°C)
- Operation in 100% humidity with condensation
- Sealed units for submersible operation
- Lamination for ruggedized enhancement
- Full dimming of backlight (dim to zero)