



## Industrial Grade LCD Flat Panels

AbraxSys Corporation is a leading provider of Industrial grade LCD Displays; including configurations with Touch Screen Systems, Sunlight Readable Technology, Legacy Video Timing Formats, and Large Screen Flat Panel Digital Signage for critical applications and harsh environments.

A comprehensive line of products and Ingress Protection (NEMA) levels are available, including IP65 (NEMA 4), IP66 (NEMA 4X) and IP67 (NEMA 9). LCD sizes range from 6.5" to 55". A multitude of mechanical mounting configurations are available.

Numerous mechanical configurations are available including NEMA 4 (IP65) Panel Mount, Stainless Steel NEMA 4X (IP66) Panel Mount, 19" RETMA Rack Mount, Open-Frame Chassis Mount, Industrial grade VESA Mount, and Rugged Tabletop. Sizes range from 6.4" through 24", both 4:3 and 16:9 (wide) formats are available.

### Sizes Supported

6.4" • 8.4" • 10.4" • 12.1" • 15.0" • 17.0"  
19.0" • 20.1" • 21.3" • 23.1" • 24"

## NEMA 4 (IP65) & NEMA 4X (IP66)

AbraxSys Industrial LCD Flat Panel Displays are ideally suited for harsh environments where dust, dirt, moisture, splashing water, hose directed spray, and various other caustic contaminants like oil, chemicals, etc. are commonplace. These models can be configured with a number of add-on optional features like Touch Screen, Optical Bonding, Extended Operational Temperature Capabilities, and many more.



### Available Mechanical Configurations:

- Panel Mount, both NEMA 4 (IP65) & NEMA 4X IP66
- Rack Mount
- VESA Mount
- Open-Frame Chassis Mount
- Rugged Tabletop



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# Industrial Computers



## Industrial Panel PC Touch Screen Computers, Workstations & Cube Computers

- Lowest Failure Rates
- Industry-Standard Components
- Outstanding Value

The AbraxSys lines of industrial computers allow unlimited computer system options and unmatched reliability features. Utilizing fast access hard drives, long-life power supplies, and the highest grade components, our industrial computers offer the lowest failure rate of any computer in its class. You can count AbraxSys' industrial computers to withstand harsh industrial environments - rugged computer designs and quality computer components make these industrial computers the only choice.

## Panel PCs

The AbraxSys series of All in One, Industrial Grade Expandable Touch Screen Embedded Panel PCs features seamless modular designs that allow for numerous combinations of different Industrial Display sizes and Industrial Computer configurations. Each powered by powerful Intel, Atom or VIA processors. This Panel Mount Computer series also provides the benefits of unit either NEMA 4 (IP65) or NEMA 4X (IP66) environmental protection. Both high performance Fan models and Fan-Less configurations are available.



## Fully-Enclosed Computers

The AbraxSys line of IP66 (NEMA 4X) Fully-Enclosed LCD Touch Screen Computers is the latest in low voltage fanless fully-enclosed VESA Mount computing. Designed from the ground up to meet the challenges of the Industrial world, this new VESA mount computer series features the 1.5GHz ULV VIA C7 processor or as an option Intel's Core 2 Duo Mobile, excellent COM port connectability and dual gigabit ethernet.



## Small Form-Factor "Cube" Computers

AbraxSys' Industrial Grade Embedded Systems are engineered with the highest quality components and peripherals to provide customers with a ready-to-go, pre-tested solution that is rugged, reliable and consistent. Designed for a multitude of applications and different Operating Systems, the AbraxSys' lines of Embedded Systems are flexible, compact and rugged to withstand different industrial environments where reliability, consistency and thermal constraints are imperative. Each system is rich with features and expandability, and ideal for a broad array of display, automation control, kiosk, and network applications.





# Military & Marine Grade LCD Flat Panels

## Military Grade LCD Flat Panels



AbraxSys has a range of LCD military monitors specifically designed for worldwide military applications where low EMI and long-term vibration resilience are essential criteria. The military LCD monitor range includes sizes from 3.5" handheld monitors to 23.1" format.

Additional military monitor features include touch-screens, PAL / NTSC models, scan reversal/inversion, and even slow scan (legacy) signals. These rugged LCD monitors are designed to comply with military standards MIL-STD 461E and MIL-STD 810F.

A few models are even apart of a rugged IP67 Rated Sunlight Readable series of LCD monitors which have been designed to comply with military specifications to make it suitable for use within vehicles and areas where shock and vibration are key criteria. The LCD monitor module is housed in a rugged, painted aluminium metal case and is mounted through rear fixing points. EMC considerations include the use of extensive shielding. The units are also integrated with Multiple user - assignable buttons (RS422).

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## Marine Type LCDs & PCs

AbraxSys supports high resolution TFT panels which are designed to withstand the maritime environment. The displays are IP sealed to withstand shock and vibration and are designed to comply with marine standards. The popular rack front monitor has a rugged milled aluminum rack front and is manufactured in full compliance with IACS E10. Sizes supported: 15" through 24".

Designed with ECDIS and Radar in mind, the range specifically meets the stringent demands of shock, vibration, EMC and EMI defined in the IEC 60945 International Standard for Maritime Navigation and Radio communications Equipment & Systems.



AbraxSys supports an extensive line of IP65 (NEMA 4) rated, Marine type LCD Flatpanel Displays. This advanced product line combines a multitude of qualities specific to the marine industry. Whether it's for use within open cockpits, or fly bridges or even bright pilothouses, the AbraxSys line of Marine type systems offers reliability and stability for all Navigation and Ship Automation applications. Compliance for ECDIS (Electronic Chart Display Information System) and ARPA (Automatic Radar Plotting Aid) is also supported.

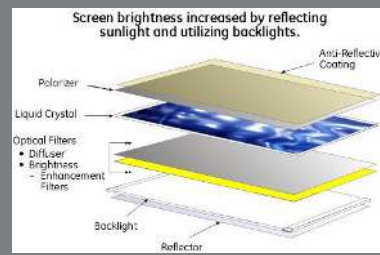
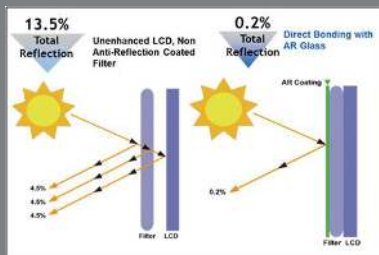
- o Versatile Display Head (VESA)
- o IP65 (NEMA 4) Rated Environmental Protection
- o Advanced deep dimming 2000:1
- o Compliant to IEC 60945
- o Built-in external power relay (AC version)
- o Contrast enhancing AR safety glass
- o ECDIS and radar compliant IEC 61174
- o Video buffer (multi-drop) and RS232 remote control

# Sunlight Readable Systems

## High Bright LCD Flat Panels and Touch Screen Computers

Since many of our flat panel display systems and LCD computers are used in uncontrolled lighting environments, we add a number of passive enhancements to maximize the readability of the touchscreen control interface. The touchscreen itself incorporates an anti-glare coating on its face, as well as an anti-reflective coating on the back and front of the LCD. The LCD also has a transfective backlight enhancement film. These coatings match the index of refraction to reduce light reflecting back at the viewer which increases the contrast ratio and enhances overall readability in bright lighting conditions.

A normal LCD will turn black when exposed to sunlight and UV radiation. Design innovations allow the LCD to operate in direct sunlight. Through the use of these special coatings, films, and filters, the unit obtains sunlight readability without additional backlights. The end result is 1000+ nit equivalent viewing without the additional power draw and heat generation of more backlights. Consequently, our flat panel display systems have longer life, better processor performance, and wider operating temperature range.



## Large Screen Industrial Monitors

AbraxSys supports a comprehensive line of Industrial grade Large Wide-Screen Digital Signage 1080p LCD Flat Panel Displays commonly required throughout various industrial environments, presentation needs, and even outdoor digital signage applications.

These Rugged 1080p Industrial Digital Signage products offer standard features such as bright TFT screens, 16:9 (wide) aspect ratio, very wide viewing angles, high contrast ratios, most offering Hi-Definition (1080p) resolution, durable designs, energy savings controls, prolonged life-expectancy and exceptional image qualities. Sizes supported range from 32" to 65" models and support true high-definition 1080p video formats and are often used extensively as outdoor digital signage. A multitude of various compute and video inputs are standard features. These waterproof 1080p can be configured with touch screens, vandal resistant windows, waterproof configuration, and other options are also available.