

Rugged LCD Products

Unitronix can supply a wide range of LCD products, in a variety of sizes and multiple levels of ruggedisation for numerous applications and survival in different environmental conditions. From IP-65 rated panel-mounts for industrial and commercial applications, to NEMA 6, IP67 all weather, all terrain, military displays, Unitronix can provide an LCD solution for your needs.



All-Weather, All-Terrain LCD's are waterproof ruggedized LCD displays which are fully submersible to NEMA 6 (IP67) standards. This XGA resolution display system is fully sunlight readable with 1950 nits LED driven backlight brightness and has enhancements to the optical stack for even greater picture clarity, uniformity and sunlight readability. The system has wide viewing angles and can operate throughout extensive operational temperatures

(standard -20° to $+70^{\circ}\text{C}$ or optional -40°C to 70°C). The All-Weather model offers several mounting options including VESA, Panel, and RAM mount ([details](#)). The optional touch screen is a durable, 5-Wire, resistive touch screen. Features 10 different video connection configurations to better fit your harsh application needs.

Military Grade LCDs VarTech's COTS military grade LCD display systems are specifically engineered to withstand rough terrain and harsh ambient environments. DiamondVue Xtreme Mil-Spec compliant displays are perfect for harsh duty applications such as vehicle mounting or rough weather field operations requiring enhanced shock and vibration safeguards, as well as electromagnetic environmental interference protection



IP-65 MILITARY GRADE



IP-65 MILITARY GRADE



NEMA 6, IP-67 ALL-WEATHER



MARINE GRADE RACK MOUNT



Marine Grade LCDs VarTech ruggedized marine grade LCD displays can withstand the most severe environments. VarTech incorporates many features unique to the marine marketplace: ECDIS, Radar, Remote Control, Video Buffer (Multi-Drop) and Auxiliary Power Relay Output. The PowerVue monitors offer continuity of design for all navigation and ship automation applications. These units are suitable for a wide variety of military and commercial shipping or avionics applications where low EMI and long-term vibration resilience is essential. The PowerVue series is engineered to meet application needs of marine monitor display and LCD flat panels.

MARINE GRADE RACK MOUNT

Aircraft LCD Multi-Function Mission Displays Curtiss-Wright's SkyQuest products offer a wide range of multi-function rugged, high-bright, high-contrast sunlight readable LCD displays for fixed and rotary wing aircraft. These displays are designed for use with FLIR and long range daylight video cameras, moving maps, computers and RADAR. The current range extends from 4" to 20" units with leading edge functionality including multiple video and VGA inputs, picture-in-picture facility, video freeze frame and digital zoom, internal NVG filters (eliminating the need for external NVG filters). Also available, optional dedicated digital video input (DVI) and HD input for use with the latest high definition camera systems. All displays are capable of showing the entire active image area (under-scan) making them perfect for use with high-res FLIR cameras. Additional options include contrast enhancement modules, soft keys, touch screens and full remote control, and can adapt existing designs to deliver bespoke units for user specific applications.



Widescreen Industrial Grade Hi-Definition LCDs VarTech's rugged line of industrial grade large screen LCDs are ideal for digital signage or presentation needs. Industrial Grade large LCD's offer bright active matrix TFT screens, wide viewing angles, 16:9 aspect ratio, high contrast ratios, fast response times and brightness levels ranging from 450 NITS to 620 NITS. Sizes: 32, 42, and 55 inch. VESA, Chassis and Table Mount models.



All-Weather Outdoor Widescreen LCDs VarTech's All-Weather large widescreen outdoor LCD displays are the ultimate in outdoor digital signage LCDs. The screens high brightness enables a quality display image in all ambient lighting conditions. Rated IP65, these all-weather LCDs can withstand harsh weather conditions and provide protection against windblown rain, dust, malicious or accidental impact. Sizes, 32 and 46-inch.

Sunlight Readable Large Screen LCDs

VarTech's sunlight readable large screen LCD displays are the solution for outdoor and high ambient light digital signage. VBOND is utilised to virtually eliminate reflection and greatly increase the comparative contrast ratio in high light conditions. VBOND turns these already very bright 450 - 620 nit LCDs into fully sunlight readable solutions. Sizes, 32 and 46-inch.



Industrial NEMA 4/IP65

Unitronix offers a wide range of industrial displays to suit a variety of applications and budget allocations. . These rugged LCD industrial computer monitors and flat panel displays are ideal for HMI, factory automation, pharmaceutical operator interface, process control, and other harsh computing environments. Available in a variety of mounting options including panel, VESA, yoke, rack, console and desktop.

OPEN FRAME CHASSIS-MOUNT

Affordable solutions for this include Acrosser and Evoc's industrial touch display monitors with NEMA 4/IP65 Compliant Front Bezel, Resistive Touch Screen, OSC Control supporting VGA, DVI, S-Video and RCA Inputs. Available in sizes from 5.7 to 19" and VESA, panel or rack mount



EVOC INDUSTRIAL LCD



ACROSSER IP-65 INDUSTRIAL LCD



Display Exposed To Direct Sunlight



High Bright Sunlight LCDs VarTech Systems offer several sizes of LCD displays utilizing a proprietary optically bonded process. This process can transform a 300 - 500 nits display into a high bright display that can be viewed in most lighting conditions. The unique VBOND process seals either a top cover glass or touch screen directly to the face of the display bezel. This bonding process eliminates the air-gap between the display and the cover glass, vastly reducing reflective light which causes visual washout of the display image. VBOND also enhances structural integrity by supporting the LCD assembly with the cover glass. The bond maintains perfect display uniformity while providing shock protection, unlimited humidity protection, and elimination of fogging

Industrial NEMA 4X Workstations – Tough Station VarTech's rugged industrial workstations, totally enclosed hardened rugged computers, and NEMA 4X industrial panel pc systems are compatible for factory process automation, pharmaceutical operation, process control, and other rugged workstation areas where water, dust, vibrations and extreme temperatures exist



C1/D2 FULLY ENCLOSED LCD/PC



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