



The Enhanced Display Experts

Field-Proven Military Displays

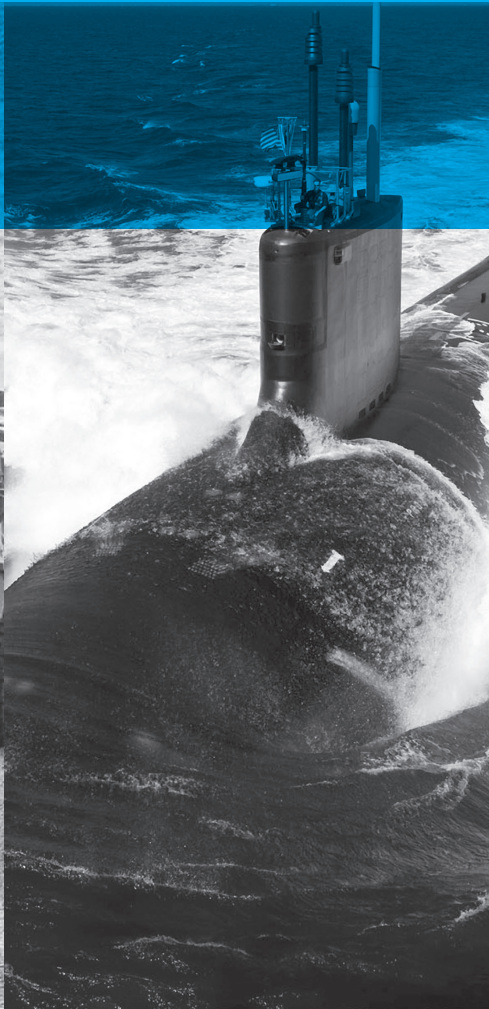


70 years of Rugged Military and Aerospace Displays

Land



Sea



Air





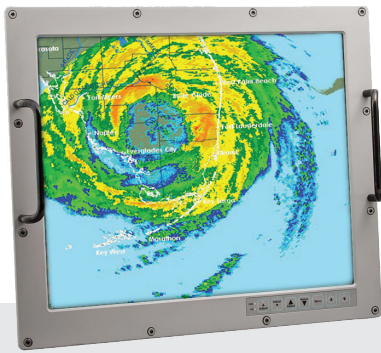
**Delivering High-Volume, Cost-Efficient Displays
For Your Military Applications**

Display Solutions

Pre-Engineered Displays That Minimize Lead Time and NRE

Enhanced Flat Panel

Rugged LCD monitors built for optimal image quality under all lighting conditions from NVIS to full sunlight.



DISPLAYS: 7"-25.5"
Custom sizes available

- Broad range of color LCD display sizes
- Active brightness enhancement
- Automatic brightness control and on-screen display controllers
- Passive brightness enhancement films
- Choice of LCD video controller for your application

Hand-Held Devices

Ultra-rugged, lightweight, portable devices designed to control military equipment ranging from IED jammers to missile defense systems.



DEVICES: Hand-held CDU, Mini CDU, 3.5"
Graphic or Browser CDU, 7" Browser CDU

- Sizes from 4-line 2.8" character displays to 7" full graphic displays.
- Sunlight readability and NVIS compatibility
- Microcontroller-based designs
- Linux or Android OS on an ARM processor
- Flexible serial data interfacing: RS-422/485 and Ethernet
- Optionally integrated touch-screen

Smart Displays

A combination of an embedded processor, rugged LCD panel and sealed switches and keys that brings interactive computing power to the battlefield.



DISPLAYS: 3.5-19"
Custom sizes available

- Available for airborne, naval or ground applications
- Integrate a selection of off-the-shelf Intel or ARM processors with Linux, Android, or Window OS
- Variety of communication interfaces
- Military Input power: 12 VDC, 28 VDC, 115 VAC

Put Our Customization Expertise to Work for You

Each application has its own unique requirements. We offer solutions that range from repurposing existing products to complete custom designs.



Display Customization Options

- Optical bonding
- Optical enhancements for optimum image quality
- Custom display enclosures
- Touch-screen technology
- Intelligent displays
- Extended operating temperature range
- Select from a wide range of industrial AMLCD sources

Rapid Prototyping of New Designs

- Days to mechanical samples
- Weeks to operational prototypes
- Months to field-able assets

In-House Facilities

- Design engineering
- Dedicated lab and prototype assembly
- Machine shop
- Clean room and optical bonding
- Access to full manufacturing lines
- Test facilities: temperature, shock/vibration and optical testing



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IEE Products Meet or Exceed Key Military Standards

- Environmental: MIL-STD-810, DO-160, MIL-S-901, MIL-STD-167
- EMI/EMC: MIL-STD-461/462
- Panel construction & lightning: MIL-DTL-7788, SAE-AS7788
- Human Engineering: MIL-STD-1472
- NVIS: MIL-STD-3009
- Power: MIL-STD-704, MIL-STD-1275
- Design Assurance: DO-254, DO-178
- FACE (Future Airborne Capability Environment) architecture compatibility
- Composite Video: RS-170/343, NTSC, PAL
- Analog Video: VGA, RGBHV, Sync on Green
- Digital Video: DVI, HDMI, SMPTE-292, Gig-E Vision, ARINC-661
- Serial Data Bus: MIL-STD-1553, ARINC-429/629/708/818



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