



The Enhanced Display Experts

Industrial Strength Displays



Does Your Industrial Display Perform Under Pressure?

IEE's enhanced displays survive where commodity displays can't. No matter the industry, our monitors are built to withstand the harshest conditions. Start with our OEMSelect, EnviroShield or OptiBright products and, if you need something special, talk to us about a display designed specifically for you.

OEMSelect SERIES

Versatile, open-frame displays for easy integration into your designs

Our open-frame displays are ideal for customers who are looking to integrate a rugged monitor into their own product designs. Commodity displays won't stand up to the demands of industrial applications. We start with high-performance panels, add the video interfaces you require and improve shock and vibration resistance for long life and reliability in an industrial setting. Let our applications engineers help you with the details to successfully integrate the display into your product.



	8"	12.1"	15"	19"
Model	OS-08SV	OS-12X	OS-15X	OS-19SX
Resolution	SVGA 800 × 600	XGA 1024 × 768	XGA 1024 × 768	SXGA 1280 × 1024
Brightness	300 cd/m ²	350 cd/m ²	500 cd/m ²	600 cd/m ²
Contrast (typical)	500:1	300:1	500:1	1000:1
Video Interface	DVI	DVI	DVI	DVI

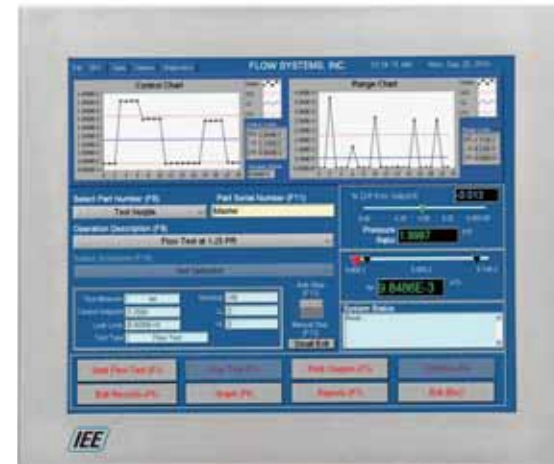
Optional Features

VGA video interface • Resistive touch or PCAP touch • Auxiliary heating/cooling to extend operating temperature range • OSD (on screen display) controls for VGA option • Optical bonding, protective glass with Anti-Reflective/Anti-Glare (AR/AG) coating • Power brick supporting 115 VAC 60Hz

EnviroShield SERIES

Complete protection
in any environment

IEE offers superior environmental protection at various performance levels. If your application requires that monitors meet NEMA 4X or IP66 standards for ingress protection, IEE can deliver a sealed display in either a fully enclosed or bezel (panel mount) design.



	15"	19"
Model	ES-15X	ES-19SX
Resolution	XGA 1024 × 768	SXGA 1280 × 1024
Brightness	500 cd/m ²	600 cd/m ²
Contrast (typical)	500:1	900:1
Video Interface	DVI	DVI
Construction	Sealed NEMA 4X/IP66 stainless steel bezel with OSD controls	Sealed NEMA 4X/IP66 stainless steel bezel with OSD controls

Optional Features

VGA video interface • Brightness enhancements up to 1200 cd/m² (15 inch only) • Auxiliary heating/cooling to extend operating temperature range • Resistive touch or PCAP touch • OSD (on screen display) controls for VGA option • Optical bonding, protective glass with Anti-Reflective/Anti-Glare (AR/AG) coating • Custom case designs from bezel to full enclosure in stainless steel • Power brick supporting 115 VAC 60Hz

OptiBright SERIES

Optimal brightness,
clarity and readability

The OptiBright series of durable, open frame displays delivers brilliant images. With our expertise in enhanced backlighting and optical bonding of filters and coatings we build displays that are capable of the highest picture quality under all lighting conditions.



	3.7"	7"	10.4"	15"
Model	OB-37V	OB-07WV	OB-10SV	OB-15X
Resolution	VGA 480 × 640	WVGA 800 × 480	SVGA 800 × 600	XGA 1024 × 768
Brightness	200 cd/m ² TRANSFLECTIVE	850 cd/m ²	1200 cd/m ²	1200 cd/m ²
Contrast (typical)	200:1	500:1	900:1	700:1
Video Interface	LVDS	DVI	DVI	DVI

Optional Features

VGA video interface (except 3.7 inch) • Resistive touch or PCAP touch • Auxiliary heating/cooling to extend operating temperature range • OSD (on screen display) controls for VGA option • Optical bonding, protective glass with Anti-Reflective/Anti-Glare (AR/AG) coating • Optional stainless steel bezel or full enclosure sealed to NEMA4x/ IP66 rated standards (15 inch only) • Power brick supporting 115 VAC 60Hz



Put Our Customization Expertise to Work For You

When a standard display product will not meet your requirements, bring your specifications to IEE. We specialize in custom products for a variety of applications for the most demanding environments. Whether your product specifications are complete, or you just have an idea, our engineering group can assist you in the design and documentation of your unique product. This includes specification documentation, electrical and mechanical engineering, software development, document control, certification and project management.

Start with any of our industrial displays and add the features necessary for your specific circumstances, or contact us about a completely custom design that starts with a blank sheet of paper. With almost 70 years of experience in building military and industrial displays, IEE has helped thousands of customers solve their display related challenges.

Display Customization Options

- Optical bonding
- Optical enhancements for optimum image quality
- Custom display enclosures
- Touch screen integration
- Intelligent Displays
- Extended operating temperature range
- Choice of Suppliers

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

Why choose IEE Solutions?

Seventy years of technical expertise

IEE has deep roots in engineering and manufacturing rugged displays for Military and Industrial customers. Since 1946 customers have trusted our mechanical and electrical engineers to create and deliver innovative display solutions designed and built right here in the U.S.A. Choose from a range of products with the features you need at a competitive price.

The best display for your application

IEE doesn't limit your options by relying on a single panel provider. We draw from a wide selection of glass suppliers to find just the right display that fits your unique application.

Customized solutions at a competitive price

Our rapid prototyping capabilities and U.S. manufacturing facility means we can turn your design around in a matter of weeks, and deliver a product tailored to your specific requirements at a reasonable cost, even if your volume requirements are modest.

Lifecycle management

By closely monitoring the roadmaps of our panel suppliers we are able to anticipate component end-of-life challenges to help you find alternatives that minimize re-design costs. We work with vendors that are committed to providing their panels for five to seven years, so you can be confident that your ongoing orders and component replacements will be readily available.

Lower total cost of ownership

IEE's display experience, low failure rates, warranty support and proactive lifecycle management gives your company the edge in managing the total cost of ownership of your display solutions.

We've Got Your Industry Covered

- Food and Pharmaceutical
- Oil & Gas
- Transportation
- Marine
- Factory Automation
- Medical
- Interactive Kiosks





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