

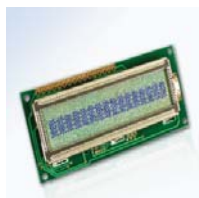


LUMEX[®]
Creating LED and LCD Solutions Together™

**Designing
for the Medical
Industry**

Medical Device Market

Our customers are the global leaders and technology innovators of their market segments. Medical device design engineers have been relying on Lumex to be able to supply a full breadth of optoelectronics and displays as well as identify opportunities to create feature rich, high value solutions for over 30 years. Because use of optoelectronics is expanding rapidly in the portable and disposable medical device market, customers are also looking for a single supplier partner like Lumex to ease the burden of sourcing multiple vendors. Lumex recognizes that there are many niches within the medical device market that have different requirements. Some of Lumex's focus niches include:



- Cardiovascular
- Orthopedic devices
- General surgery devices
- Endoscopy devices
- Neurology devices
- Urology and gynecology equipment
- Ophthalmic equipment
- Cosmetic and aesthetics equipment
- Wound care and management equipment
- Respiratory and anesthesia equipment
- Disinfection and sterilization equipment
- Infusion systems
- Pain management equipment

Design Considerations for Medical Applications

- Response Time
- Extreme Temperatures
- Portability
- Daylight Visibility
- Vibration
- Low Power Consumption



LUMEX PRODUCT FAMILIES

- Extreme Temp LCDs
- High Power LEDs
- SMT LEDs
- Light Pipes
- Through-Hole LEDs
- Infrared Devices
- LED Displays
- LED Arrays
- LED Backlights
- Monochromatic LCDs
- TFT / Touch Screen LCDs

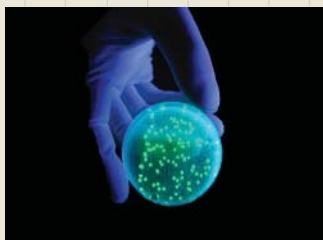




Value Proposition

Lumex is Customer Driven

By partnering with a wide range of medical device companies over many decades, Lumex has become a leader in bringing new opto-electronic and display technology specifically designed for this challenging market. We have created LED and LCD solutions that allow our customers to take their applications to the next level in performance and endurance. Whether we are supporting standard SMT and through hole LEDs



Bacterium illuminated utilizing UV light. Lumex's new family of UV LED are available in 385nm, 405nm and 415nm.

or working on a fully integrated solution, our engineering design team is focused on ensuring that the end product being designed fits the customer needs for the application, versus

bending a product design to meet the components available. Our time-tested formula for design collaboration has consistently offered the best results for meeting the demands in the medical environment and the increasing complexity of product designs.

Why do medical device design engineers choose Lumex? Lumex has been supporting the Medical Device market with leading technology longer and more consistently than anyone else in the industry across the broadest range of products. Lumex can be the single supplier for both standard off the shelf products as well as fully integrated engineered solutions. The benefits of having Lumex as a supplier partner are:

- Breadth of product means reduced number of vendors
- Leveraging Lumex's design expertise reduces your engineering time
- Faster time to market
- The newest technology means the most feature enhanced, high performance applications on the market

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