



Lighting Solutions
for Illuminating Medicine's
Most Demanding Applications

EXCELITAS
TECHNOLOGIES



Illuminating Your Demanding
Medical Markets.



Excelitas – Your Trusted Partner for Medical Lighting Designs.

For over 25 years, Excelitas has been your trusted partner in the Medical Illumination and Medical Equipment markets. We understand exactly what

it takes to get even the most complex projects off the ground and how to deliver them on critically short deadlines.

From supplying a lamp-only solution to providing a complete, integrated system, Excelitas consistently delivers Lighting Solutions for the most demanding applications including illuminating the Surgical Suite, Endoscopy procedures, Dental procedures, and even Photodynamic Therapy for newborns.

Unequaled Expertise and Global Resources

Our customers benefit from the power of Excelitas' Lighting design and manufacturing sites located throughout the USA, Europe, and Asia. In fact, we have three ISO-certified design and manufacturing facilities exclusively dedicated to LEDs.

Excelitas' leadership in Illumination and medical component design for medical devices is based on many exceptional capabilities:

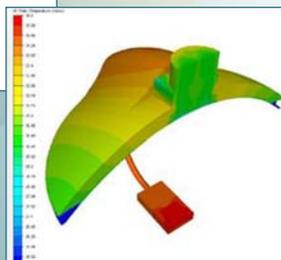
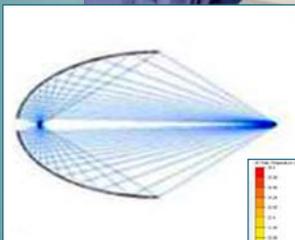
- Innovative solid-state and Xenon-based technologies
- Light engines
- Fiber Optic Illuminators and Modules
- High-performance Arc-lamp Power Supplies
- Comprehensive design, manufacturing and testing capabilities in ISO 9001-certified facilities. Specific key manufacturing facilities are in compliance with Quality System Regulations (21 CFR 820) and certified to ISO13485:2003 for medical devices.
- Extensive engineering expertise
- Optical design and measurement
- Thermal management design and analysis
- Electrical system design



Robust Portfolio of Environmentally Conscious Lighting Solutions



Solid State Lighting – The Future of Energy-Efficient LED Lighting is Now



LED technology is moving rapidly into demanding medical applications like the surgical suite and dental operator for many reasons – most notably, they produce high-intensity white light while emitting significantly less heat. They are more durable, compact and environmentally sound than traditional incandescent lights.

There is a lot more to an LED solution than just the LEDs. At Excelitas, you can depend on our complete, integrated solutions from concept through post-production.

Our LED capabilities include:

- Optics design, simulation and measurement for difficult optical requirements
- Thermal management
- Electrical systems design
- Mechanical design
- ACULED® family of custom and standard Chip-on-board (COB) LED packages including specialty white LED packages
- High CRI, high R9 white LED technology
- LED Fiber Optic Illuminators and LED Modules
- Entire lighting fixtures

Excelitas – Delivering Expert Technical Support Throughout the Entire Product Life Cycle

CERMAX

A Trusted Brand Name Virtually Synonymous with Medical Lighting Applications



Our Cermax[®] Xenon offerings for perfect bright, white light include:

- Industry-standard PE300BFA ceramic-body short-arc lamps for endoscopy, microscopy, headlamps and other demanding medical OEM applications
- 1.4" PE300C short-arc lamps for a myriad of medical applications requiring more light in a small profile lamp
- Miniature 150-watt Xenon lamp – PE150AF – for small fiber applications
- Our newest metal-body Cermax VQ[™] lamps:
 - ME300 lamps for applications demanding longer lifetime and lower system noise
 - ME400 lamps for applications requiring more light than the PE300C while maintaining low system noise
- Specialty Cermax UV lamps for dental curing and other applications requiring a wide spectrum of light
- Excelitas' XL3000 Xenon-based Fiber Optic Illuminator
- Power Supplies designed to run Xenon Arc-lamps



Illuminating Your Medical Markets with Customer-Specific Designs and Expertise

Lighting for Surgical Suites

Excelitas is a leader in the development of high-efficiency, LED-based Illumination Solutions for Surgical Suites where perfect white, bright light is a must. Excelitas leverages our broad experience in both Cermax® Xenon as well as LED-based Solutions to provide you with the best possible lighting for your demanding high-performance specifications – from surgical theater to high-end microscopy devices to robotic surgery equipment.



Excelitas has partnered with a market leader for Surgical Theater Lighting to **accelerate the introduction of a premier LED-based surgical light** which provides high-intensity light with less radiated heat and less energy consumption than incandescent alternatives. Excellent shadow control, a crisp, adjustable spot, and high R9 values for deep, saturated reds are all benefits of our LED technology.

Endoscopy and Headlamp Lighting

The Cermax® Xenon brand is the lamp of choice for high-end endoscope and headlamp applications.

Excelitas has a wide range of capabilities including design and manufacturing of complete endoscopy systems using:

- Cermax Xenon technology
- The latest in LED technology
- OEM systems design support
- Proprietary light engine designs

Whether you have an application requiring light for a less than 1 mm fiber or a greater than 6 mm fiber, we have the solution for you.



Excelitas is a pioneer in lighting for endoscopy. Working with a key OEM, we **introduced the industry's first Xenon-based endoscopy unit** over 25 years ago. Today, all of the major OEMs design their high-end endoscopes using Excelitas' trusted Cermax Xenon lamps.



Dental Lighting

Excelitas offers a wide array of lighting solutions for the dental market including:

- Overhead lighting
- 3D oral imaging
- UV lighting for teeth whitening
- Epoxy dental curing

From solid-state LED lighting to our deep experience in Cermox Xenon, Excelitas has a custom solution that will fit your dental lighting needs.



Photodynamic Therapy (PDT)

One of the most exciting areas of medical lighting is that of light-based therapy for newborns. Excelitas' diversified lighting portfolio of LEDs, Xenon flash lamps, and Cermox Xenon lamps allows a variety of lighting solutions for your next PDT design. From lamp-only to complete light source designs, we are addressing treatments for:

- Newborn jaundice
- Eczema
- Acne
- Fine lines and wrinkles
- Photoepilation
- Hyper-pigmentation



Using cutting-edge LED technology, Excelitas designed a complete high-performance LED light engine assembly for a leader in dental operator lighting. The solution provides uniform light intensity output as well as the ability to vary color temperature for shade matching. The benefits of LED technology include lower power consumption, reduced heat output and prolonged life compared to halogen lights.

True to its focus on driving better outcomes for newborn and maternal health – Excelitas is partnering with a leading OEM provider for the treatment of newborn jaundice using a custom LED Solution. LED-based phototherapy is an innovative yet noninvasive treatment modality for management of hyperbilirubinemia.

www.excelitas.com/Lighting

About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers.

From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security, and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

The company was previously a business unit of PerkinElmer, and is now owned by Veritas Capital.

Cermax® Xenon Inquiries

North America: shortarcxenon.na@excelitas.com
Latin America: shortarcxenon.la@excelitas.com
Asia: shortarcxenon.asia@excelitas.com
Europe: shortarcxenon.europe@excelitas.com

Flash Lamps Inquiries

North America: flashlamps.na@excelitas.com
Latin America: flashlamps.la@excelitas.com
Asia: flashlamps.asia@excelitas.com
Europe: flashlamps.europe@excelitas.com

Solid State Lighting Inquiries

North America: ledsolutions.na@excelitas.com
Latin America: ledsolutions.la@excelitas.com
Asia: ledsolutions.asia@excelitas.com
Europe: ledsolutions.europe@excelitas.com

Excelitas Technologies

Illumination, Inc.
44370 Christy Street
Fremont, California 94538-3180 USA
Telephone: (+1) 510.979.6500
Toll-free: (+1) 800.775.6786
Fax: (+1) 510.687.1140

Excelitas Technologies

LED Solutions, Inc.
160 E. Marquardt Drive
Wheeling, Illinois 60090 USA
Telephone: (+1) 847.537.4277
Fax: (+1) 847.537.4785

Excelitas Technologies

Elcos GmbH
Luitpoldstrasse 6
Pfaffenhofen, 85276
Germany
Telephone: (+49) 8441.8917.0
Fax: (+49) 8441.7191.0

Excelitas Technologies

GmbH & Co. KG
Wenzel-Jaksch-Str. 31
D-65199 Wiesbaden
Germany
Telephone: (+49) 611 492 430
Fax: (+49) 611 492 165

Excelitas Technologies Shenzhen Co., Ltd.

Wearnes Technology Center
No.10 Kefa Road, Science & Industry Park, Nanshan District
Shenzhen, Guangdong, 518057
China
Telephone: (+86)2655 3861
Fax: (+86)755 2661 7311

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