ILLUMINATING MEDICINE'S MOST DEMANDING APPLICATIONS.

Illumination Solutions
for Improving the Quality of the Human Experience
ILLUMINATING YOUR DEMANDING MEDICAL MARKETS.
For over 25 years, PerkinElmer 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, PerkinElmer consistently delivers Illumination 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 PerkinElmer’s nine global Illumination design and manufacturing sites in the USA, Europe, and Asia. In fact, we have two design and manufacturing facilities exclusively dedicated to LEDs.

PerkinElmer’s 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
- 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
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 operatory 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 PerkinElmer, 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
- Custom Chip-on-board (COB) LED packaging including specialty white LED packages
- High CRI white LED technology
- LED Fiber Optic Illuminators and LED Modules
- Entire Lighting Fixtures

Robust Portfolio of Environmentally Conscious Lighting Solutions
Cermax® Xenon –
A Trusted Brand Name Virtually Synonymous
with Medical Lighting Applications

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

- Industry-standard PE300BF ceramic body lamp for endoscopy, microscopy, headlamps and other demanding medical OEM applications
- 1.4” PE300C lamp for a myriad of medical applications requiring more light in a small profile lamp
- Miniature 150-watt Xenon lamp – PE150 – for small fiber applications
- Our newest metal-body Cermax VQ™ lamps:
  - ME300 for applications demanding longer lifetime and lower system noise
  - ME400 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
- PerkinElmer’s XL3000 Xenon-based Fiber Optic Illuminator
Lighting for Surgical Suites
PerkinElmer is a leader in the development of high-efficiency, LED-based Illumination Solutions for Surgical Suites where perfect white, bright light is a must. PerkinElmer 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.

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

PerkinElmer 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.
Dental Lighting

PerkinElmer 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 Cermax Xenon, PerkinElmer 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. PerkinElmer’s diversified lighting portfolio of LEDs, Xenon flash lamps, and Cermax Xenon lamps allows a variety of lighting solutions for your next PDT design. From lamp-only to complete light source designs, we are addressing your needs in treating:

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

True to its focus on driving better outcomes for newborn and maternal health — PerkinElmer 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 non-invasive treatment modality for management of hyperbilirubinemia.

www.perkinelmer.com/Lighting
About PerkinElmer

PerkinElmer is a $2 billion global technology leader focused on creating a brighter, healthier and safer environment.

PerkinElmer is committed to providing environmentally conscious lighting solutions that improve the quality of the human experience. We take pride in providing solid state and Xenon-based products and solutions that help people live longer and healthier lives.

We seek to partner with each customer to understand your unique challenges and provide innovative lighting solutions that help you win in your markets.

www.perkinelmer.com/Lighting