



lighting technology for the

perfect image



the medical industry standard

for over 20 years.



# the light engine of choice

for today's demanding medical lighting applications

Cermax<sup>®</sup> Xenon by PerkinElmer is the light engine of choice for today's demanding medical lighting applications such as surgical endoscopy, diagnostic endoscopy, surgical headlamps, surgical microscopy, phototherapy, and biofluorescence.

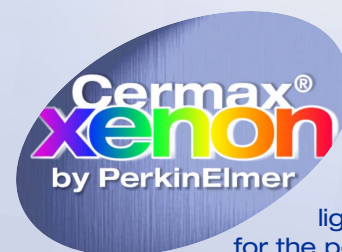
PerkinElmer's patented Cermax Xenon is truly fueling the medical revolution, providing medical OEMs with high intensity, white light and numerous advantages over halogen, mercury or quartz xenon lamps. These advantages start with perfect bright, white light for viewing the true colors of tissue and vasculature, allowing for accurate diagnoses. Cermax lamps have a compact yet rugged design, high reliability, and are environmentally-safe, mercury-free products. It's no wonder that Cermax Xenon is found in virtually every major hospital in the world and over 90% of leading medical OEMs are asking for Cermax Xenon by name.

## The advantages of Cermax Xenon

- **Unparalleled color performance:** 6500°K bright, white light, making it the medical industry standard for over 20 years.
- **Integrated parabolic or elliptical reflector geometries:** No alignment issues—just high intensity, collimated or focused output of ultraviolet, visible and infrared radiation, depending upon your unique application.
- **Instant on-off:** Eliminates the challenges associated with warm-up or cool-down time.
- **DC Operation:** Delivers improved image quality through reduction in complicated system sequencing.
- **Ultra-short-arc gap:** Allows manufacturers to design high throughput systems.
- **Environmentally-safe:** Inert, non-toxic xenon gas offers an environmentally-safe alternative to mercury based lamps.
- **Flexible power ranges:** from 80 to 400 Watts.

## Delivering unparalleled technical expertise and global resources

With nearly 50 patents on our Cermax Xenon technology, PerkinElmer Optoelectronics has the expertise and global resources to support the technical and design requirements for the medical lighting environment. We understand that true white 6500°K light and true color rendition are absolutely essential to excellent visualization in today's minimally invasive and other medical procedures. Our applications engineers will work with your design team to deliver the perfect brightness and the perfect image quality to improve and speed procedures and, importantly, to ensure accurate medical diagnoses.



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# state-of-the-art solutions to deliver perfect illumination

## The right solution for your medical lighting application

From the beginning, PerkinElmer has continually set new standards of industry excellence, delivering to OEMs many innovative “firsts” in medical lighting.

- We were **the first** to offer a 300 Watt Xenon light in a small but rugged ceramic package.
- We were **the first** to offer miniature Xenon lamps, ultra-small yet reliable lamps with an arc-gap of 0.64 mm and a power range of 80–150 Watts.
- We were **the first** to offer the 330 Watt Xenon light with a 0.97 mm arc-gap in a rugged ceramic body.

When choosing a lighting source for your next platform, be assured that PerkinElmer will deliver the perfect solution to your demanding medical applications. And we don't just stop at lamps. At PerkinElmer, we offer complete solutions including power supplies, lamp modules and heat sinks, and complete fiber optic illumination systems.

## State-of-the-art fiber optic illuminators to suit your needs

Our complete fiber optic illuminators offer the excellent reliability and performance you have come to expect with Cermax® Xenon technology by PerkinElmer. Cermax Xenon is the premier fiber optic illumination source for integration into endoscopy equipment and other demanding applications. PerkinElmer's new XL3000—utilizing a 300 Watt Cermax Xenon light source—is the ideal choice for your fiber optic illumination applications. With CE and UL regulatory approvals, the XL 3000 will meet and exceed all industry standards. Whether your need is an off-the-shelf or a fully customized unit, you can depend on PerkinElmer's Cermax Xenon technology to deliver perfect illumination.



New XL3000



# Perfect white, bright light

is just a phone call away

## Selection Guide: Medical Cermax Lamps

PerkinElmer Lamp Type	Power Range (Watts)	Reflector Types	Focused Output (Lumens) 6mm Aperture	Focused Output (Lumens) 3mm Aperture
Type A Elliptical	85 – 150	f/1.0 & f/1.3	660 – 1500	420 – 1000
Type B Elliptical	125 – 300	f/1.0	1250 – 3500	650 – 2000
Type C Elliptical	300 – 400	f/1.0 & f/1.3	3100 – 7700	1750 – 4085
Type A Parabolic	80 – 150	Parabolic	540 – 900	350 – 700
Type B Parabolic	125 – 300	Parabolic	1050 – 3130	620 – 1410

## PerkinElmer Optoelectronics

PerkinElmer Optoelectronics is a global technology leader providing market-driven, integrated solutions for a wide range of applications which leverage our lighting, sensors and imaging expertise. Our technologies, services and support are fueling the medical, genomic and digital revolutions by enhancing our customers' productivity, optimizing performance, and accelerating time-to-market.

Whether for Cermax Xenon lamps, power supplies, or integrated fiber optic illumination systems, call us and put PerkinElmer's expertise to work in your demanding medical lighting applications. Let us show you why there is no substitute for Cermax Xenon when it comes to delivering the perfect image.



Cermax® Xenon Lamp

XL3000

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