We harness the power of light...

... by creating high performance precision lamps and working with customers to evolve bespoke, innovative photonic solutions for an ever-expanding variety of scientific, industrial and commercial applications.

Both our flash lamps and systems development skills increase in sophistication as the diversity of applications continues to evolve. Our current breakthrough areas include Aesthetic light sources, Solar Simulation and Rapid Thermal Processing for heating and annealing applications.

Our Photonics Application Centre in Cambridge (PAC) is dedicated to photonic technology innovation. Using PAC expertise, we work closely with customers to develop industry defining flash lamp solutions. This results in both swift access to new lamp design and highly responsive feedback to assist enhanced photonic solutions.

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Quality provision and outstanding customer service are integral components of the Heraeus philosophy.

Debbie Playle
Heraeus Noblelight

Flash lamp features
Flash lamps can be filled with Xenon, Krypton or a combination depending on the application, providing a versatile broadband spectrum with usable wavelengths from 160 – 1000nm (see graph). Certain wavelengths can be filtered or enhanced using different quartz envelope materials.

We design flash lamps to achieve a limitless combination of operating parameters; by adjusting pulse duration, repetition rate and current density, output can be fine-tuned to optimise the application or process on small and large scale areas.

Our lamp designs utilise Heraeus’ innovative technology which harnesses quartz envelope, gas fill, and electrode designs, resulting in lamps with long lifetimes. Flash lamps do not contain harmful additives, offering an eco-friendly solution.

Our lamp and product development expertise is applied through the Photonics Application Centre to create photonic solutions for a growing number of industrial processes.

Share your application challenge with our specialist team to discover how our flash lamps and systems can provide you with innovative solutions.

We pride ourselves on delivering ‘best in class’ service

Priority service 10 day lead time for critical customer situations
98% OTD shortest production lead times in the industry
Performance guarantee <0.5% return rate
Technical support a team of industry leading experts to support your needs
Safety stock can be implemented for critical products, reducing your risk of production stress, delay or stop

Bespoke lamp design prototype design: 5 days samples: 21 days from design approval

The power behind Heraeus stems from ‘innovation driven by customer collaboration’. Pioneers in laser lamp manufacture and electrode technology since 1978, our automated arc and flash lamp manufacturing is the most advanced in the industry. Our ground-breaking automation assures lamp reliability, quality and consistency.

For us, customer satisfaction is everything.

We are experienced in many applications benefit from our lamps: