

An abstract graphic representing the visible light spectrum, transitioning from blue on the left to red on the right, with green and yellow in the middle. The colors are depicted with a textured, almost liquid-like quality, suggesting the dynamic nature of light. The background is a light gray gradient.

Heraeus

The incredible power of light[®]

Photonics-based solutions from ultraviolet to infrared



Light is more than you can see

Heraeus Noblelight offers special light sources
in the wavelength range from ultraviolet to
infrared for a wide variety of applications.

See for yourself, and discover what we can do!



Powerful solutions across the whole spectrum

Heraeus Noblelight covers the total spectrum of technically usable wavelengths and can help find the optimum light solution to suit specific processes. The wavelength has a major influence on the efficiency of a process. The better the emitted wavelength fits the absorption spectrum of the material, the more efficient the process.

Productive light – with wavelengths from ultraviolet to infrared – provides higher economic efficiency, improved process reliability and more innovation in many industrial, scientific and medical applications.

Environmental

Monitoring the environment with the help of analytical lamps ensures hazardous chemicals are correctly controlled and their use complies with government safety regulations. Contaminated water can be treated with energetic UV lamps without adding chemicals and so environmentally friendly.



Printing & Packaging

Depending on the type of ink, adhesive or coating, UV or IR emitters are used for drying and curing. Surfaces of packaging materials are disinfected by UV, and IR is used to shrink foils – efficiently and reliably.

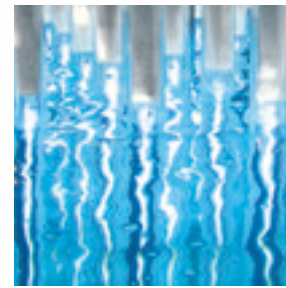


Medical

Detection of drugs, disinfection of laboratory surfaces, sterilising air, heat processing of medical devices or hair removal and skin rejuvenation, there is a multitude of applications that benefit from flash lamps, analytical lamps, or UV and IR technology.



Detection of gases



Disinfection of water



Analysis of water and soils



Disinfection of surfaces



Curing of UV ink



Drying of ink



Shrinking of foils



Laser and IPL treatment



Processing of medical equipment

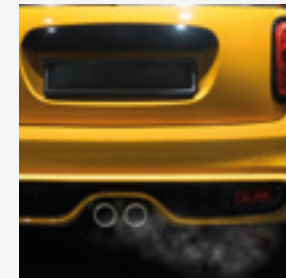
Automotive

More than 200 different processes in the automotive industry need specialty light. For example, infrared heat ensures that seat covers do not crease and decorative strips or carpeting fit precisely. Laser lamps help to weld car bodies, UV technology cures coatings on headlamp lenses, and analytical lamps detect gases.



Electronics/Printed Electronics

Organic or metallized inks are printed on paper, plastic foil or glass. Curing, drying and sintering are processes necessary to obtain the required conductivity or dielectric properties. These processes can be carried out by UV systems/LEDs, Xenon flash lamps or infrared systems.



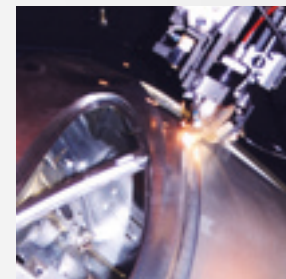
Analysing exhaust gases



Curing of coatings



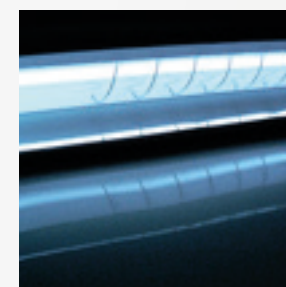
Drying of protective coatings



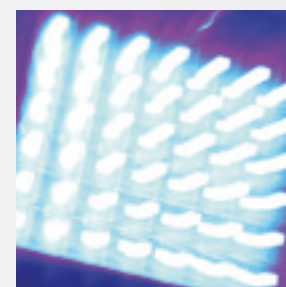
Cutting and welding of metals



Drying and sintering



Rapid photonic processing



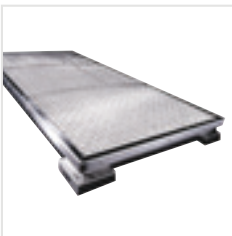
UV-LED curing

Tested, checked and proven

Heraeus Noblelight understands that manufacturers need to make industrial processes more efficient. A Heraeus light solution is always matched to the process – and not vice versa. Exactly fitting light solutions save energy, time and space.

Application Centers, Measurement Lab, Energy efficiency

Customer materials can be tested in our applications competence centers and industrial processes can be optimized in your facility. In addition, Hanau has an accredited measuring laboratory that offers its know-how to customers and takes customer-specific measurements.



UV

Reliable UV technology for efficient processes

Amalgam lamps, low pressure and medium pressure lamps, UV-LEDs, Metal halide lamps, microwave-powered systems as well as complete solutions to treat water, air and surfaces.

OA

Stable analytical lamps for precise analysis

Deuterium lamps, hollow cathode lamps, PID lamps, FiberLight® modules and many other types of analytical lamps for measuring instruments.

AF

Powerful and customized Arc and Flash lamp solutions

Continuous (CW) lamps, flash lamps and trigger transformers for industrial lasers and non-laser applications as well as special pulse lamps for IPL and cosmetic applications.

IR

Intelligent infrared heating solutions save energy

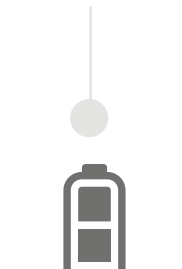
Infrared emitters and complete systems from near infrared (NIR) to medium wave emitters and carbon infrared (CIR®) for intelligent heating processes in industrial production.

Benefits

Precisely adjusted
to material properties



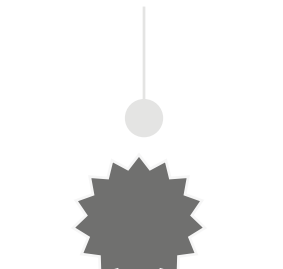
Optimises the use
of energy



Environmentally friendly



Reliable and constant quality



Individualized solutions for
dedicated customer use



UV and IR technologies
are powerful tools



Short response times



Fit perfectly into process
requirements

Meeting your process challenges is our first concern. Whether you wish to optimize existing applications or win new markets,

Heraeus Noblelight offers efficient, well thought-out and long-life solutions that give you a permanent competitive edge.

Heraeus Noblelight specialty light sources

Whether you wish to optimize existing applications or win new markets, Heraeus Noblelight offers efficient, well thought-out and long-life solutions that give you a permanent competitive edge. Worldwide, we are the leader in productive lighting solutions – from ultraviolet to infrared. We offer well-engineered, reliable and customer-optimized light systems. Profit from significant productivity, product enhancement and optimized energy consumption in industrial, scientific and medical applications. Meeting your process challenges is our priority. Rely on the acknowledged Heraeus quality!

Productive light improves economic efficiency, environmental protection and innovation. Our technologies are instrumental to a wide range of industries – from analytical and automotive to semiconductors and water treatment.

In our applications competence centers for UV and IR lamps, we provide unique support all over the world: customer materials can be tested under practical conditions and processes can be optimized. Heraeus Noblelight is part of the Heraeus precious metals and technology group, a globally active family-owned enterprise. Within the Heraeus group, we have direct access to fundamental technologies and high-quality materials such as quartz glass and precious metals.

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