COMPANY PROFILE

We are the only global innovator offering UV-based solutions for water, surface and air disinfection on a worldwide scale.

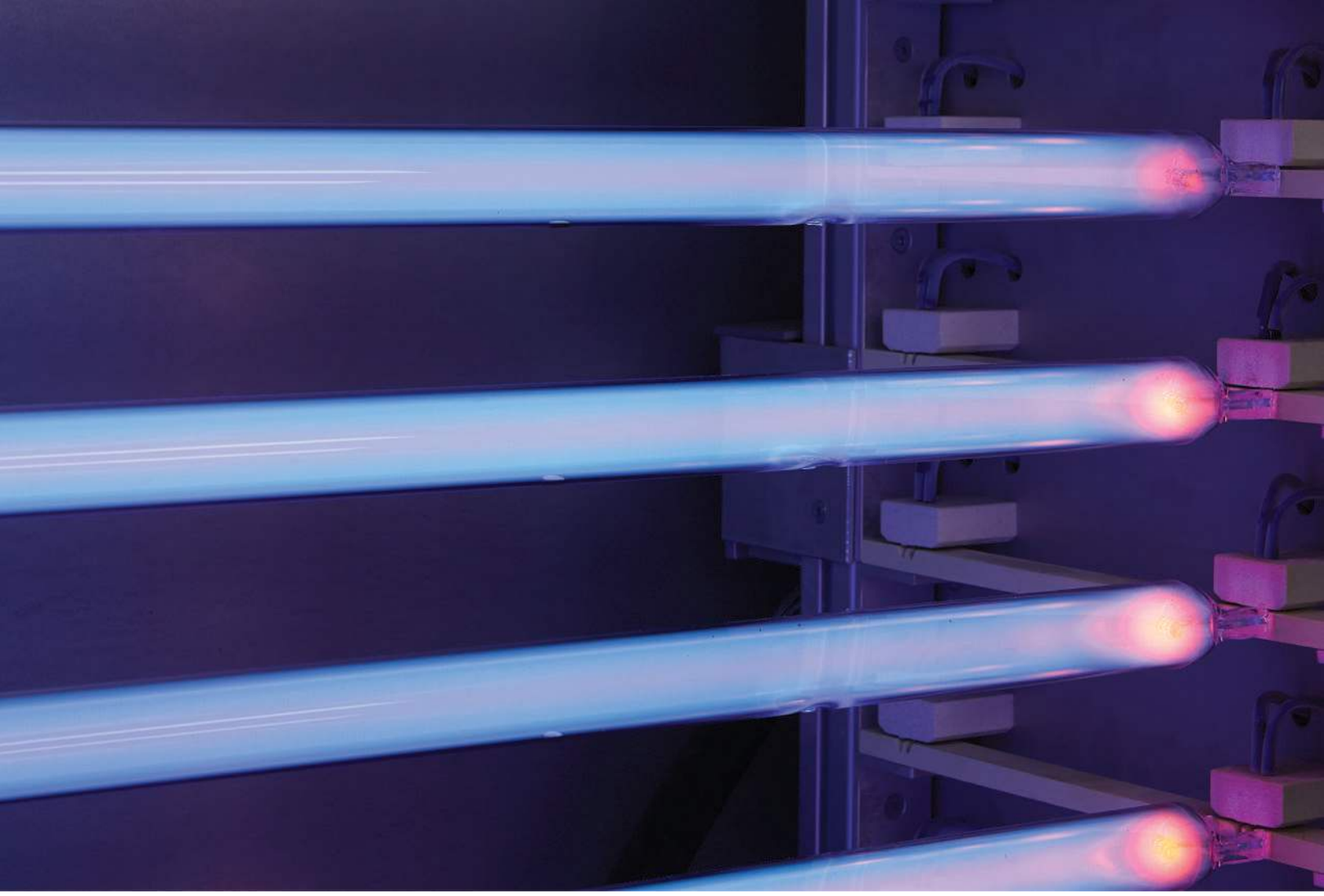
Our Story

Nuvonic unites Aquionics, Berson, Hanovia and Orca under one name and purpose: to grow a safer, cleaner, healthier future for everyone, every day.

The four companies' combined products and services offer chemical-free full-facility treatment through the innovative application of UV technology.

Our mission is to support nature's purity with science, by protecting people and processes from harmful contamination. With our rich and pioneering heritage spanning almost a century, we have the market experience and technological knowledge to develop solutions that solve specific industry problems.

Halma is our parent company who has brought together the four pioneering companies. They are a global group of life-saving technology companies. Named as one of Britain's Most Admired Companies, its group of around 45 companies provides innovative products and services that help solve many of the key problems facing the world today.



UV for Full Facility Disinfection

Purifying water, air and surfaces in your building on a regular basis helps to prevent the transmission of germs that cause illnesses.

When our products are implemented together, they treat the water, air and surfaces within the whole facility. It is adaptable to a variety of settings, including offices, fitness centers, workplaces, depots, and community centers. As well as healthcare environments, the food and beverage industry, and other manufacturing facilities where specific regulations and procedures apply.

Some pathogens are more difficult to eliminate or eradicate, necessitating a specialist UV application system. Our UV experts will assess your environment and recommend the best solution for you.

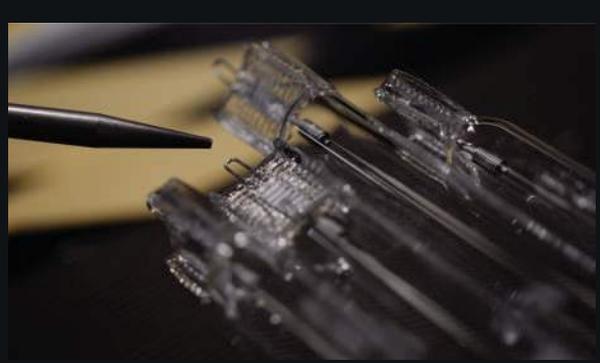
UV Technology

Protecting the world's water, surface and air without using chemicals, Nuvonic supplies ultraviolet disinfection systems for industrial and municipal applications.

There are three mainstream UVC lamp technologies used in Industrial and Municipal applications: Amalgam lamps, Medium Pressure and Low pressure lamps. The type of lamp technology used has a significant impact on the characteristics of the UV system, and offering a choice between them allows us to strike the right balance between size and efficiency for each application.

As we manufacture all types of lamp we are uniquely placed to assess these competing characteristics to arrive at our "Application Optimised UV" solutions.

Applying paint for heat and UV reflector to keep lamps running stably, to get to 100% output faster at start up and to keep all lamps uniform.



Spark test to verify any lamp leaks, quality is checked at several stages of the production process, including before packaging.

Industrial UV For Different Markets

Whether your business is industrial or municipal, we enable you to meet your market challenges in the best possible way. We offer innovative products and future-oriented solutions specific to your application and we call it our Application Optimized UV solutions.

Application Optimised UV solutions

Industrial UV disinfection applications are very diverse and can be found in the food industry, the pharmaceutical industry, at water parks and swimming pools, in fish farms, ships, etc. The municipal UV disinfection applications consist of installations for drinking water, waste water and water reuse. We are a long-time partner and provider of UV disinfection applications for a range of sectors.

In addition to UV disinfection technology, we also develop UV technology for dechlorination and ozone reduction, so that ozone or chlorine are no longer harmful to filters and membranes in an industrial process.

Food & Beverage

As one of the main industries our UV solutions focus on, our product ranges have a great variety of applications, protecting your products and processes from harmful contamination such as bacteria, viruses, moulds, Chlorine Dioxide and Ozone.

Pools & Leisure

Our UV Swim and SwimLine ranges has been providing bather protection in the leisure industry for over 30 years. Used as both a secondary disinfection system and for the removal of Chloramines a UV system is the ideal partner for a chlorinated pool.

Building Services

Legionella bacteria and biofilms are found in various purpose-built systems hence each building needs clean air, surfaces and water supplies. Our full-facility services cover each of these areas and ensure a bacteria and virus-free environment.

Pharmaceutical

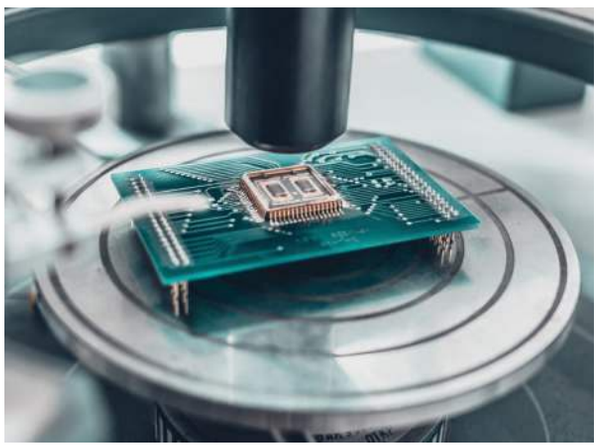
With intensity regulated against an unchanging standard, independent audit records enable exact assessment of UV doses rather than presuming their amount. Several of the top pharmaceutical producers in the world are effectively using it for TOC reduction, and dechlorination.

Healthcare

UV light is an excellent disinfectant when applied appropriately. Bacteria, yeast, moulds, and viruses are quickly made inactive if the cells are exposed to enough UV light. Healthcare facilities must adhere to an ever-growing set of worldwide standards.

Aquaculture

Characterised by rapid growth, increasing stock densities and tighter environmental regulation, the need for a chemical free disinfection process to control fish diseases and manage environmental impact has never been higher.



Semiconductor

UV treatment is an effective process steps for the breakdown and reduction of TOC, dechlorination, and killing bacteria in the water to create ultrapure water used in microelectronics and semiconductor industries.

Power

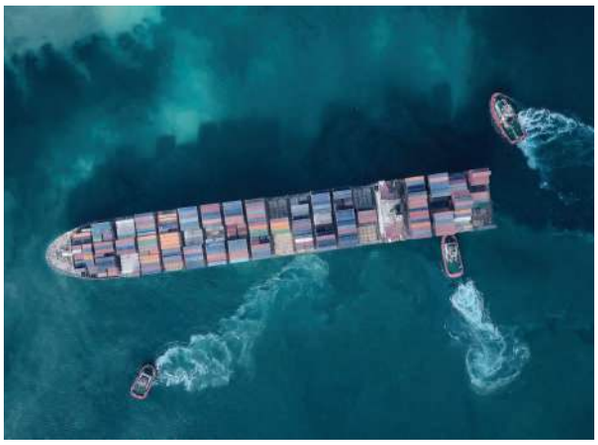
The demineralized water system is an essential component in thermal power facilities, and the use of ultrafiltration membranes, RO membranes, and EDI devices has made residual chlorine management challenging.

Drinking Water

Our UV solutions has been protecting people from harmful contamination from bacteria and viruses for decades. Purifying contaminants in our water can prevent the cause of gastrointestinal disease, reproductive problems, and neurological illnesses.

Marine

Protecting the environment of our seas, our optimised UV solution can deliver reliable water security for the ballast water, and black water treatment systems, as an effective microbial control and environment-friendly solution.



Reuse Water

UV is also growing in popularity in this application as it provides a proven alternative to Chlorination, avoiding the generation of potentially harmful by-products. This is particularly useful when the waste water is discharged into sensitive environments of critical reuse applications.

Waste Water

With increasing urbanisation and water stress, the need for tertiary treatment and disinfection of waste water is growing, UV technology is the preferred treatment process, particularly for discharge to sensitive environments.

UV Lamp Manufacture

The ability to manufacture Medium pressure UV lamps for our own systems makes us unique in the industry.

Manufacturing UV lamps since the company was created in 1924 has given us a century of experience in the research and development of UV lamps and systems for germicidal and photolysis applications.

Unique because we can optimise both the lamp technology and the system design for the application that it is intended for. Our insight into lamp science, system design and application requirements translate into truly “Application Optimised UV” systems.

Amalgam lamps offer a monochromatic (Single wavelength) output at 254nm to approximately 35% conversion of electricity to UVC. These lamps are efficient with their low energy density creating relatively low power (100 to 800 W).

Medium Pressure lamps offer a polychromatic output across a wide spectrum. This can be useful to match the sensitivity of a target organism. Conversely they are high powered (1kw to 24KW) and short in length which means you need fewer lamps in a smaller reactor.

Low Pressure lamps offer radiation at 254nm wavelength - this is right within the germicidal range of 250 to 280 nanometers where the DNA is most sensitive. This makes them ideal for a wide range of disinfection applications.

Depending on the ambient temperature and humidity of the room, either single-walled or double-walled lamps are used. Each lamp has its characteristic IP specification, temperature and power curve and they are designed for a minimum duration of 12,000 operating hours.

Global Footprint

Sustainability is a core part of our existence. Our entire mission revolves around providing sustainable solutions to our customers and thus protect processes, people and the environment from harmful contamination.

Sustainability

As part of the Halma Group, sustainability is an intrinsic part of the group's overall purpose. We have an embedded commitment to making the world a safer, cleaner and healthier place by providing chemical-free solutions. Sustainability, by design, is at the core of everything we do and bring to market.

For our World

Around two-thirds of Halma's revenue contributes towards the broad aims of four United Nations Sustainable Development Goals, which are highly aligned with our purpose, products, and services. As we grow, so does our positive impact.

Our Manufacturing

We currently operate within a UV lamp factory that has a BREEAM excellent score for a sustainable built environment. Developed to be the most sustainable lamp factory, and we strive to continue to be environmentally friendly by using solar panels, heat pumps. EV charging and heat recovery.

Our Design

We leverage and continually innovate UV technology as a chemical-free alternative to water treatments, air and surface disinfection, and many more. In addition, we are migrating to more eco-friendly materials, packaging and recycling methods in the future.

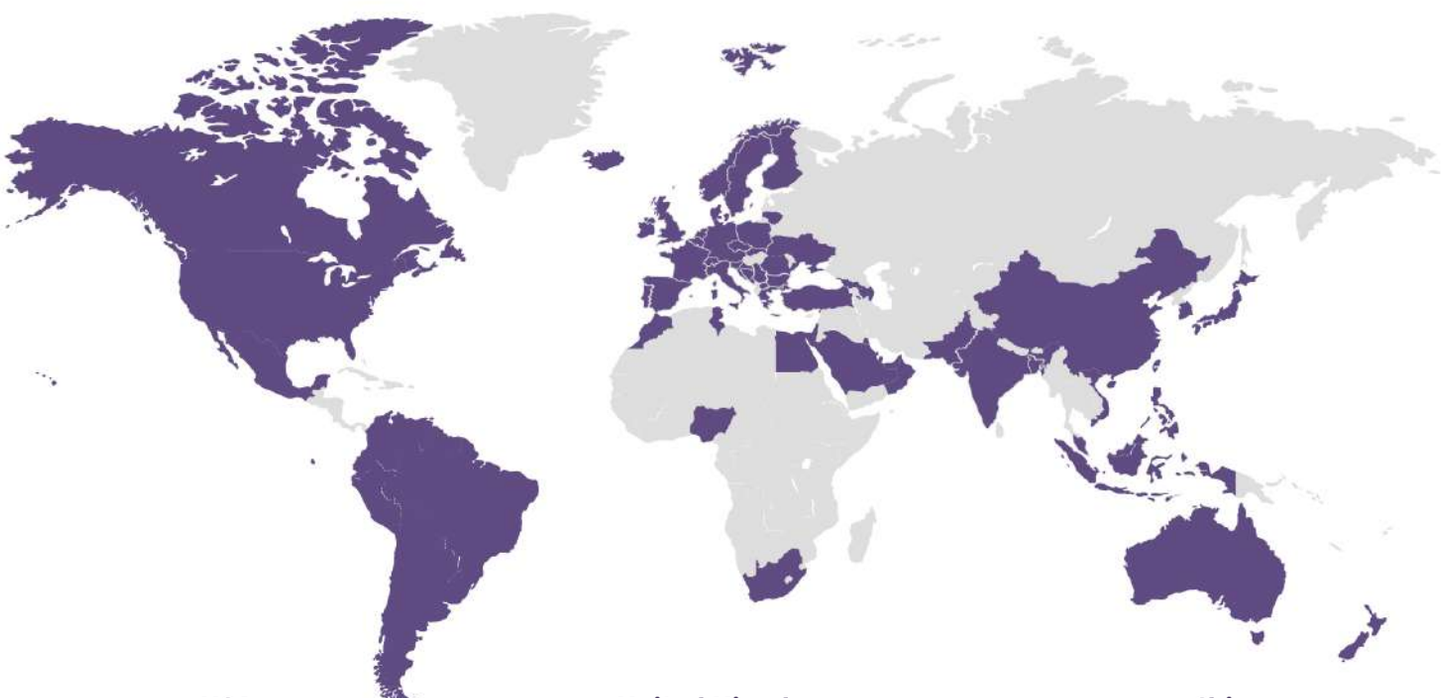
Our Customer Service

To provide you with local support and to maximise your UV uptime we ensure we have technically qualified personnel close to where you operate, wherever that may be.

WeUVCare

We UV Care, so you're never alone

We recognize that your process is central to your productivity, and your UV is critical to your customer and brand security, so we are making "UV Care" our life's work. With many thousands of systems supplied and installed worldwide, we have an excellent track record of delivering quality and reliability. It's easy to replace or upgrade most UV systems without the need for costly pipe modifications. We know that monitoring and maintaining our lamps can require additional resources. We have developed accessories that make it easy to do so.



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