UV Light Applications

Germicidal UVC Lamps for Sterilization & Disinfection

Because of the inherent benefits and endless possibilities, UV light applications are quickly becoming the most popular choice worldwide for industries that require water, air and surface sterilization. Germicidal UVC technology offers safe, simple, and cost-effective solutions. Our products are used in units that help safeguard drinking water from harmful microorganisms, food processing plants, hospitals, and HVAC applications as well as many other applications.

UV Light Applications – Innovative Technologies for Industry

Air Sterilization

UV light applications are used for odor control, sterilization, and elimination of VOCs and industrial exhausts containing solvents. In some institutions, such as hospitals, air quality is crucial for health. Germicidal UV purifies the air from microorganisms that cause illness and contaminants that aggravate asthma or other respiratory ailments. The use of UVC in odor control has many applications, including wastewater plants, farms, commercial kitchens (HVAC), and food processing plants. UVC germicidal lamps are also critical in purifying the air in industries where harmful and toxic chemicals are produced, such as printing, plastics and rubber.

- Healthcare
- HVAC Systems (commercial, industrial, healthcare, and residential)
- Agriculture (animal husbandry)
- Commercial Kitchen Hooks
- Printing (Rubber, Plastic & Vinyl)
- Industrial

Surface Sterilization

UV lamps disinfect surfaces without chemicals, which is crucial in many industries. In the food industry, for example, our lamps are used for irradiation: germicidal ultraviolet light can kill viruses, bacteria, yeast, and fungi in seconds and can extend shelf life and nutritional value. Increasingly, UV light applications are used for filling equipment, conveyor belts, transport containers and working surfaces of foodstuffs.

- Food Processing (processing, warehousing, handling, produce department, salad bars, buffets, bakeries, restaurants, meat cases)
- Clean Rooms
- School Labs
- Biotech Industry (research labs, biotech labs, equipment sterilization, medical testing, bioengineering, genetics, pharmaceutical processes)
- Agriculture (crops)

Surface Sterilization by 222 nm
LightSources 222nm Excimer series is our new line of 222 nm Far UV-C excimer lamps for microbial reduction. LightSources 222nm Excimer is presently used for unoccupied spaces with ongoing studies to make it the future solution for all occupied and unoccupied microbial reduction solutions. Features of the LightSources 222nm Excimer lamp allow customers to obtain 100% light output in less than a second, whereas the conventional germicidal lamp starts at only 50% output and takes several minutes to achieve 100% output. Available in 20W and 300W, these mercury-free and instant-start excimer lamps are ideal for bathrooms, toilets, counter tops, and other occasional-use applications.

Features and Benefits:

- Mercury Free
- Large Production Capacity
- Flexible Design Capabilities for Custom Lamp Development
- Effective Germicidal Wavelength
- Effective Eradication of Most Spores
- Wide Operating Temperature
- Instantaneous On/Off

Applications:

- Surfaces
- Air
- Water

Specifications:

Water Disinfection

UV light applications are used to create safe water in pools and spas and eliminate the need for chlorine’s harmful and irritating effects. They are also used in aqua culture, life sciences, and water treatment processes (treating ship ballast water, waste water, drinking water purification, and water reclamation). Traditional ways to treat and disinfect water can be unhealthy, hazardous, and environmentally toxic. UV water treatment is safe and environmentally friendly, and, in some cases, more effective.

- Pools & Spas
- Aqua Culture
- Life Sciences
  - Water Treatment (waste water, municipal and residential, drinking water, industrial & commercial process water, and water reclamation)
  - Ballast Water in Ships

LightSources and our affiliated companies, LCD Lighting, Voltarc along with strategic partners, LightTech and Cerlux, represent the leading high-tech designers and manufacturers in the lamp industry today. We offer high-quality standard lamps and components as well as specialize in customizing the best solutions to meet our
partner’s unique needs. Contact us to learn more about our UV light applications.